

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: ericvia@why.net (Eric Via)
Subject: [13287] "different" Antennas..
Message-ID: <v01520d0ead58c1052c13@[207.211.121.129]>

Fine QRP folks,

I once read of some clown making a nice workable antenna out of beer cans.

Anyone else heard of such strangeness? I was thinking of perhaps an aluminum lawn chair on the roof...I mean if I'm gonna be challenged and be doing QRP - I may as well make it a REAL challange!

Comments?

72 Eric AD4SS (VK8SK in Australia)
..and please - don't ever take me T00 seriously okay?

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: n4js@amsat.org
Subject: [13347] "Super" Sierra
Message-ID: <XFMail.970228174532.n4js@amsat.org>

Well, finished up the KC2 and buzznot and got it all hooked up today. Everything worked, 1st time! That KC2 is amazing!

Sent at 17:45:32 on 28-Feb-97

_ _ _ _ _	John L. Sielke	n4js@amsat.org	n4js@pobox.com
\ _ / _ _	n4js@n4js.ampr.org	NJ Grid:FM29LN	
. ' _ _ \ _ _ \	http://www.pobox.com/~n4js		
_ \ _ _ \ _ _ / _ _ /	NJ-QRP #57	QRP-L #884	QRP-ARCI #9328
NE-QRP #507	G-QRP #9544	Norcal #????	QCWA Life Member

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: tayloe_d@juno.com (Daniel R Tayloe)
Subject: [13267] 24v 38 Special -> 20 watts
Message-ID: <19970227.175757.7719.0.tayloe_d@juno.com>

Well I had to try it out. 24v on a 38 special does indeed send the output to 20w. I used my "not quite finished" 40m 38 Special as the test subject. If I can just find time to finish up the RX/TX offset!

I get RF peak voltages of about 45v (90v peak to peak) across my 50 ohm dummy load, resulting in $V^2/(2 \times 50)$ or 20.25w. With the variable output power modification, (ac coupling the MOSFET gate and varying the gate bias voltage as derived from the "T-" signal from 0 to about 5.25v), I can get continuously variable power from 10mw (1v peak) to 20.25w (45v peak).

I have another 12v battery I could throw on, but the 8v regulator (which powers *everything* in the rig but the final) is only good to 35v input, not the 36+ v I would have. Using 30v, 30w output operation is quite likely, with no modifications required other than a much larger heat sink on the IRF510 final.

Kind of a neat little radio. Connect 12v for 5w QRP, connect 30v for 30w QRO!

Kids, don't try this on the air. QRP is our friend. :-)

- Dan Tayloe, N7VE, Phoenix, Az, QRPL # 696, Az ScQRPions

From owner-qrp-l@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: "Jim Kortge, K8IQY" <jokortge@mci2000.com>
Subject: [13341] 38S to 38S contact
Message-ID: <1.5.4.16.19970228224557.203fc434@mail49.mci2000.com>

Well, I finally got to hear another 38S on the air and work him this afternoon. Answered KR5L's CQ, and it was Jerry in Tulsa, OK. He was running a 38S to a R7 vertical at 5 watts, and I was running mine at 3 watts to the 170 foot long wire. Solid QSO and a new state on the rig. I'm now at 21 states and 5 countries. This is a cool rig!!

72....Jim

Jim Kortge, K8IQY (ex NU8N)		BMHA, NorCal, QRP-L
jokortge@tir.com	__o	Cascade 17/40 SSB
Fenton, MI	_`<	Mizuho 17/40 SSB
...	(*)/(*)	...

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: Jim W7LS <w7ls@brigadoon.com>
Subject: [13284] 4 sale: HW-8 w/HWA-7 supply
Message-ID: <199702280436.UAA00340@olympic.brigadoon.com>

Hi, gang. I have two Heathkit HW-8 rigs with the matching power supplies that I need to sell. They work fine and are built average to well. Not some hacked up mess by a pre-beginner. Look nice inside and out. I don't think there are any mods except one or maybe both of them have SO-239 coax connectors on them instead of the phono jacks for the antenna. \$110 for the rig and supply. As I said, I have two sets to sell.

Oh, UPS shouldn't be more than a few bucks to anywhere in the country. Tnx/73 de Jim, W7LS

You can reach me here or at 206-788-0779 days, eves, weekends.

I have books for both of them, I think. For sure for one. Pretty sure for both.

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: Jim W7LS <w7ls@brigadoon.com>
Subject: [13285] 4 SALE:Tokyo Hy-Power 40/15/6 meter HT
Message-ID: <199702280450.UAA02577@olympic.brigadoon.com>

I have to sell my precious Tokyo Hy-Power HF handi talkie to pay for another ham toy. Dang. Here's the scoop: It covers 40/15/6 meters ssb and cw. LCD digital display and tuning. 20Hz, 100Hz, and 1 KHz tuning steps. Covers 7.0-7.3 MHz, 21-21.5 MHz, and 50-50.5 MHz. USB, LSB, and CW. 3 watts output on 40 and 15. 2 watts out on 6 meters. Has a built-in noise blanker, internal batteries (AA cells), dial light (whoopie).

Accessories I have are the leather carrying case, whip antenna with resonators for 15 meters and 6 meters, and a broken one that maybe could be fixed for 40. Has a BNC connector on top for external antenna. I have the book for it.

Hate to part with it. It's soooooo cute! About the size and shape of a 2 meter HT from the late 70's. A little bigger than current 2 meter ht's.

These were imported into the USA a few years back, but not many were sold here. This is the ultimate backpacking rig, folks.... Built very strong. Lots of attention to details on this.

They sold for around \$630 I am told plus accessories plus import duties. This one has obviously hardly been used. I don't see any scratches at all on it and the leather case is shiny new. No sign of any wear at all on it. The edges of the leather where it was cut during forming are absolutely sparkling clean.

I'm asking \$550 plus a few for UPS. It will ship in a shoe box

easily. I can be reached here or on the horn at 206-788-0779 days, eves, weekends.

73 de Jim, W7LS

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: Richard Sherman <srichard@aldus.northnet.org>
Subject: [13262] 49er Question
Message-ID: <3.0.16.19970227234830.37df45a8@aldus.northnet.org>

I'm finally getting around to putting a 49er together but I've come across a few minor problems. The biggest problem is that since I only bought the board from NorCal rather the full kit I did not get their documentation. I have the Rev. A schematic and parts layout from QRPP and The Quarterly but I have the Rev. B boards. I need to know the differences in parts between the two Revisions. Also what is the value and type for C21 which was not on Rev. A? I have checked the web sites that I knew had 49er info, NorCal and KnightLites, but only found Rev. A info. Thanks in advance, and as always, any help is greatly appreciated.

72 de Rick WZ2T NNY
srichard@northnet.org

Cross country skiing is great if you live in a small country.
---Steven Wright---

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: Mark E Gustoff <Mark_E_Gustoff@ccm.ch.intel.com>
Subject: [13319] 4SALE::20M SSB Transceiver

WM-20 rig from NN1G. 20M SSB. Troubleshooted and aligned by Dave himself. Nice "little" (5x5x1) rig installed in his optional enclosure w/PIC counter that gives freq. readout in CW I really like this case, and would consider it in a couple other projects, thus my peculiar pricing scheme below:

1) WM-20 As she sits today. Completely packaged with case, pots, knobs, jacks - \$140

2) WM-20 Incomplete. Just the operational/assembled circuit board w/onboard PIC counter components installed - \$90
(I keep the enclosure, pots, and knobs for my GM-15)

Both options include manual and shipping to lower 48 states.

72,
Mark de W07T

===== RIG DETAILS FROM SWL WEB PAGE =====

The 'White Mountain' is a single-board SSB transceiver design, with a top-quality double-sided printed circuit board measuring 4.4" x 5.25" (11 x 13.4 cm).

Specifications:

-Intermediate Frequency (IF):	9.83 Mhz (75M), 8.00 Mhz (20M)
-Transmit/Receive Crystal filters:	2.3 Khz BW
-Receiver MDS:	-128 dBm (0.1 uV)
-Two-tone Dyn. Range	90 dB
-Image Rejection:	70 dB
-Frequency Coverage:	150 Khz nominal (20M)
-Cold Start Drift (Typical)	300 Hz
-Transmitter Power Out	3-4W average PEP
-Carrier Suppression	-40 dB - no adjustment required
-Transmitter Harmonics/Spurs	-45 dBc
-Transmitter IMD3 (2-tone)	-36 dB PEP / (3W avg. PEP)
-Power requirements:	12-14 VDC @ 120 mA (receive)

An enclosure option is available separately. This features a off-white extrusion enclosure measuring approximately 1.5" (H) x 5.6 (W) x 5.0" (D). The matching front panel is silkscreened and both the front and rear panels are prepunched. The rear panel includes DC power (common with Norcal/Wilderness connector) and

BNC. All connectors and controls, including a 10-turn pot, are included. Frequency readout is provided by a Morse frequency counter function (a la KC-1) whose parts drop into a reserved area on the main board itself.

(You provide an HT speaker/ mike). The WM design is compatible with the Yaesu MHW-12AB, Icom M-54, MFJ-284 and Radio Shack HT speaker/mikes.

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: "Ed Manuel" <n5em-qrp@msn.com>
Subject: [13322] 73 - The Magazine
Message-ID: <UPMAIL06.199702281939270245@msn.com>

Lest we spent too much time getting worked up over 73, remember that we are talking about the same magazine that, late in '96, featured a lead headline on the cover about the nutcase who had just published a book - DEFINITELY proving that the Apollo moon landings were a complete hoax. Does the term "yellow journalism" mean anything to you? If not, you just not old enough.

WG does anything, no matter how outrageous, to get you to pick it up and buy it. It is a shame, too. There are good articles in it occasionally. Of course, there are some technical laughs, too. If you are interested in ATV, the Houston ATV club is putting together a bunch of articles for the May issue. So, if he publishes MY article, he can't be ALL bad :-)

Ed, N5EM

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: "Marshall G. Emm" <mgemm@mtechnologies.com>
Subject: [13271] Anti CW Article in "73"
Message-ID: <3316406A.3605@mtechnologies.com>

The March issue of "73" has a long and vitriolic article framed as a critique of the ARRL survey. It's interesting reading, and I hope a number of you will write to "73" after reading the article. The article is by Alex Haynes, AC5HU, and begins on page 35.

There have been a lot of very good articles in "73" lately, and, Wayne Green's politics notwithstanding, it is a major disappointment to see the headline "ARRL Code Survey Exposed" on the cover.

Alex claims that the survey was "cooked," and to presents a number of arguments in a logical fashion, going into great detail about the wording of the survey questions. Unfortunately, he accepts as fact an

awful lot of distortions and misrepresentations which should not go unanswered. I can't find him on my QRZ database, so presume he's one of the recent crop of "no code Extras" who somehow earned our highest qualification without any skill or experience. I'm not going to go into any detail here, but since he took the trouble to sum up his arguments in point form, I'll reproduce them here for your delectation. I find it interesting to note that as critical as he is of the ARRL survey's wording, he's confusing "code proficiency" and "code requirement" in his closing argument. Please remember this is AC5HU saying these things, not me! If you must respond, please write to "73" as writing to me isn't going to achieve much [g].

[begin direct quote]

The real issues used to decide our position should be ones of fact, such as:

- * How does a code proficiency contribute to amateur radio?
 - Facilitates international communications.
 - Provides somewhat longer-range communications.
- * How does a code requirement detract from from amateur
 - Excludes a large number of technically qualified individuals from the hobby.
 - Has resulted in underutilization of frequencies and their loss to commercial interests.
 - Has contributed to the erosion of U.S. amateur radio equipment development and manufacturing capabilities.
 - Has slowed the development of competing technologies for impressing intelligence on RF carriers.
 - Discriminates against some handicapped individuals.

[end of quote]

Go get 'em!

73
Marshall Emm
AA0XI

73
Marshall Emm
AA0XI

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997

From: Joe Gervais <vole@primenet.com>
Subject: [13258] AZ ScQRPions and AZ Non-ScQRPions
Message-ID: <199702272301.QAA20232@usr11.primenet.com>

Bob (N4BP) wrote:

> They're in AZ, they must be ScQRPions! And if not, why?

Guess some folks have just hit their limit on club meetings, socializing, Field Days, etc. I have it easy - the ScQRPions are it for me. :-) No hard feelings in either direction as far as I know. And everyone knows they're more than welcome to stop on by.

Other than that rule where the new guy has to buy lunch for everyone, we're a very friendly bunch. :-)

But heck, as long as everyone is putting out QRP RF, I say all is well. But if you *happen* to be near HRO in Phoenix this Saturday, around 10:30AM... :-)

Cheers de AB7TT,

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)

2-Way QRP WAS: 44 (Need: HI, ME, ND, RI, VA, WV)

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: TMOLL@aol.com
Subject: [13323] Chirpy drifting QRP signals
Message-ID: <970228150137_-1306425825@emout06.mail.aol.com>

What I want to know is how this listener is able to discern what signals on the band are qrp or qro (aside from the obviously illegal ones)? I operate qrp on "non-qrp" frequencies more than on the designated qrp frequencies. Most qro guys probably don't have any idea where the qrp frequencies are, and operate there frequently. Also, there is a better than even chance that these chirpy and/or drifting signals are originating from one of the many qrp or qro boat anchor rigs that are becoming more prevalent on the band. I operate an old Viking Navigator (usually at qrp levels) quite a bit. When I first got it, I was getting chirp reports. Even tho this "deluxe" xmtr is highly regulated, I traced the problem to a very weak 5U4 rectifier. Replacing it fixed it. I think the resurgence in interest in the old gear is great, and there is a lot of home brewing of fire bottle rigs going on - visit the BA or glowbug lists. Many of these rigs are qrp to boot, often crystal controlled.

Getting good xtals for these rigs can be tough. Also, the simple designs are often less than perfect in producing perfectly clean signals, but just like we qrp-l guys, these guys are experimenting and learning, and I for one would not be very critical of their less than perfect signals. To off handedly blame the qrp group, whether solid state or tube based, for these signals is ridiculous (IMHO!)

NoBS

From owner-qrp-l@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: Charles Cashion <ccashion@spdmail.spd.dsccc.com>
Subject: [13307] clown
Message-ID: <199702281453.IAA28072@vob005.spd.dsccc.com>

ericvia@why.net (Eric Via) wrote (EV>)

EV>

EV> Subject: "different" Antennas..

EV>

EV> Fine QRP folks,

EV>

EV> I once read of some clown making a nice workable antenna

EV> out of beer cans.

EV>

Guys,

That was no clown.

That was Ron Carpenter, KN5GDI, 1956.

He was my neighbor.

He and I were in the same High School.

He and I had the same elmer.

He and I were first licensed as novices about the same time.

It was easier then. At that time, beer cans were TIN and easily soldered. Ron erected a beer can vertical of about 30 or 35 feet. Making solder stick to aluminum is somewhat more difficult.

72s, 73s, whatever it takes,

Charles Cashion, W5ISZ, Did you hear abt the two electrical engineers that got into a fight over JK flip flops versus D flip flops? It took the police to break it up. They reported it as the flip flop flap.

From owner-qrp-l@Lehigh.EDU Fri Feb 28 18:07:17 1997

From: "Michael A. Gipe" <mgipe@reliablemeters.com>
Subject: [13273] Debugger #2: Day 1 (long)
Message-ID: <199702280226.UAA07187@multi13.netcomi.com>

Well, I braced myself and opened the package.

Inside the package was a circuit board, carefully wrapped in static shielding, a small metal enclosure with the controls and connectors installed, two bags of miscellaneous parts, three test fixtures, a file folder with kit instructions, mods, errata, and other paperwork, and a large envelope with notes from Larry KA5T.

Here is the amazing part. The notes from Larry consisted of 82 pages of information about what he had done, all the calculations he made, all the things he tried, etc. 82 pages! The test fixtures also appear to be Larry's work: a crystal tester, a VFO breadboard to test component values, and a clever switch and cable fixture. He apparently also installed all the controls and connectors on the enclosure in preparation for finishing the kit.

Scanning through Larry's notes, it is obvious that he essentially reconfirmed the rig's design by recalculating most of the component values. He also tested and altered, as necessary, every tuned circuit or frequency determining component. Amazing!

BTW, the circuit board is single sided with no solder mask, no silk screen, a few long wire jumpers, and a number of components mounted on the bottom.

After scanning through all the paperwork, I decided to bite the bullet and turn the thing on. I wired up 13.8 volts from a lab supply and hit the switch. Larry had already smoke tested it so I wasn't too concerned about that. The power supply current draw is about 40 mA, which seems about right. I put a scope on the NE602 VFO oscillator. Larry had already worked on that, modifying component values to bring it to the right range, and he tacked on a fixed cap in place of the air variable for easier debugging. The signal at the VFO was very clean and about 2 Vpp at approximately 4.72 MHz.

I coupled 7 MHz signal from my signal generator to the antenna input. Since the signal generator only goes to -60 dBm, I just clipped its output around the insulated wire coming from the antenna input on the circuit board. This worked well to give me a usable range of signal level adjustment; however, I do not know exactly what the actual input level is. Does anybody have a calibrated attenuator (preferably HP) for sale? That is one piece of test equipment that I sure could use.

The first mixer worked, producing roughly 12 MHz from my 7 MHz input. By varying the frequency of the generator, I found that the resulting IF

signal level peaked at 7.050 MHz. This confirms that the front end RF tuned circuit was properly aligned. The preselector is a single tuned circuit tapped down for the NE602 input. Given the high input impedance of the NE602, this makes the Q of the input circuit very high -- IF the component Q's are similarly high. It seems to work pretty well. I'd say that the front end selectivity was quite good, covering 40 meters, but attenuating pretty quickly outside of 40 meters. Incidentally, the designer went into and out of most of the NE602s differentially, with transformer coupling. I believe this makes for a slightly more robust design at the expense of more toroids.

I moved the scope to the audio output. The receiver worked! I tuned the generator around and found zero beat at 7129.100 kHz with the fixed tuning cap in the VFO. With the signal generator set to -32 dBm and extremely lightly coupled into the antenna, the audio output was 170 mVpp with 30 mVpp noise.

I tuned up and down and found that maximum received signal occurred at 7128.650 kHz with an audio note of 470 Hz, a touch low, but quite acceptable. A quick check of the bandwidth (with the built-in audio filter bypassed) showed the -3dB points at 7128.950 kHz and 7128.390 which is 560 Hz 3dB BW. Pretty good! The rig has a four-crystal filter plus the aforementioned audio filter.

I played with varying signal levels and observed the AGC action. It has a quick attack, slow release characteristic on the order of 1 second (timed by eye on the scope).

I did find that under certain conditions, the AGC loop will oscillate! This may be the oscillation that Larry was experiencing. This needs to be fixed, and may require a design change. It will probably be affected by switching the audio filter in or out of the circuit. The AGC is audio derived and is the only means by which the signal levels before the product detector are controlled. The AGC drives the IF only. The RF mixer is full on.

I haven't measured the receiver sensitivity, not having the test equipment to do that, but it does seem to be working.

That's it for day 1. The major accomplishment was confirming that Larry did an excellent job bringing up the receiver.

Mike K1MG

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: AD4KB@aol.com
Subject: [13332] dit dit or dah dah ???
Message-ID: <970228162450_918141666@emout06.mail.aol.com>

OK, another dumb question. I just built my first keyer. (A small \$12 kit from Ten-Tec, and homemade key). Nothing in the instructions about which side should be dits and which side should be dahs. I wired it as dits to the left and dahs to the right - is this the norm?
73 de Jim (AD4KB@aol.com)

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: Randy Hargenrader <randyh@harksystems.com>
Subject: [13280] First 89er to 89er QSO!!(?)
Message-ID: <331652D1.889@harksystems.com>

Gang,
Tonite during the famed Colorburst Sprint, yours truly worked K2SJB, Dr. Dave, "at closing time". He and I were BOTH using our homebrew 80-9ers. Could this be a World Record!?! The First QSO between 89ers? YEEHAWW!
JSYK, I was at 1 watt, he was at 2 watts.
--
73, Randy WJ4P
QRP-L #296 ARCI #9152 1996 40-9er High Scorer

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: GREGOIRE@endor.com
Subject: [13302] FOX Report de AA1IK, corrections
Message-ID: <Chameleon.970228090056.GREGOIRE@Gregoire.endor.com>

Hello Gang,

The following is a report on last nights activity.

FOX HUNT FEBRUARY 26, 1997

Time Call	RST-Out	RST-In	Z#	- QTH	- Name	- Notes
0100 WA9PWP	579	559	04	- WI	- PAUL	- NR 127
0103 K5WO	579	559	04	- TX	- BOB	- NR 273
0107 VE7SL	579	559	03	- BC	- STEVE	- NR 769

0108	NN9K	579	559 04	- IL - PETE	- NR 055
0110	NQ7X	559	559 03	- AZ - FLOYD	- NR 343
0114	K1MG	559	559 03	- CA - MIKE	- NR 624
0117	N7VE	559	559 03	- AZ - DAN	- NR 5 W
0118	NI0A	599	589 04	- MN - JOHN	- NR 689
0125	AB7TK	559	579 03	- ID - RANDY	- NR 202
0126	K50I	559	599 04	- NM - TIM	- NR 73
0129	W5FN	579	569 04	- TX - TIM	- NR 586
0131	W6ZH	579	579 03	- CA - PETE	- NR 257
0134	K2VC0	559	569 03	- CA - VIC	- NR 725
0136	AB7TT	229	569 03	- AZ - JOE	- NR 191
0137	W0FG	579	579 04	- IA - RICK	- NR 1019
0139	KE4YH	599	559 05	- FL - STEW	- NR 590
0142	W5XE	559	579 04	- TX - RAY	- NR 256
0143	K5JHP	559	229 04	- TX - BILL	- NR 825
0153	W7GVN	229	229 03	- AZ - ROD	- NR 849
0156	VE5RC	229	229 04	- SK - BRUCE	- NR 886
0158	N7MFB	559	599 03	- WA - BILL	- NR 825
0203	VE5WF	559	579 04	- SK - EARL	- NR 5 W
0206	N6MM	559	579 03	- CA - HARVEY	- NR 418
0208	N6XU	559	579 04	- IN - STAN	- NR 669
0211	KF6CTA	229	559 03	- CA - DICK	- NR 951
0213	KK4KF	229	339 05	- FL - BILL	- NR 755
0217	AC4YK	559	559 05	- NC - JOE	- NR 568
0222	W6SU	229	559 03	- CA - JOHN	- NR 48
0223	AB7ST	559	559 03	- UT - BOB	- NR 129
0230	W6BA	229	339 03	- CA - HARVEY	- NR 5W
0234	AB7MY	339	599 03	- AZ - GARY	- NR 571
0236	AB4WQ	339	599 04	- TN - ?	- NR 50 W
0242	AB5UA	559	269 05	- OK - CLIFF	- NR 478
0244	K10J	229	449 04	- TX - OJ	- NR 732
0246	WB0JVV	229	569 04	- MO - MAGGIE	- NR ?
0251	KD40BQ	229	559 05	- FL - PAT	- NR 1 W
0255	N4SO	229	229 04	- AL - KEN	- NR 100 W
0259	K06KA	229	559 03	- CA - ROB	- NR 176

Proudly re-submitted by AA1IK

de AA1IK,
Ernie Gregoire

Lead by example.

It is better to pull a string,
than to push it.

R.R. 1, Box 221,
South Rd.
Canaan, NH. 03741

Fists # 2644, N.E.QRP # 202
QRP-L # 95, Fly fisher & tier,
Promise Keeper.

E-mail address: gregoire@endor.com

packet address: AA1IK@W1WOK.FN43FE.NH.USA.NA

02/26/97 12:31:45

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: wb2vuo@juno.com (William K Hibbert)
Subject: [13297] FYBO and the 1-wave Sloper
Message-ID: <19970228.074808.4679.1.wb2vuo@juno.com>

Several requests for the info on the 1-wave sloper. Here's a file I put together a couple of months back on the antler...Keith, WB2VUO

=====

A Tilted Off-Center Fed Long-Wire

In the December, 1995 "QST", there is an article on a tilted (sloped) long-wire array called "The Super Sloper", by Roger Sparks, W7WKB. What Roger had done was to model a tilted long-wire with a parasitic director with his computer. What he found can be applied to a simpler array utilizing just the long wire with an offset feedpoint.

A basic long-wire will have a pattern that differs from the classical 1/2-wave antenna. The radiation will be more off the ends of the wire instead of the sides, with the major lobes lining up closer to the wire direction as the length is increased. The major lobes form a squashed cloverleaf pattern, with the center of the pattern partially filled with the minor lobes. (By definition, a minor lobe is any lobe that is -10dB when compared to the strongest major lobe...) These lobes run from 45-degrees off-axis for a 1-wave long-wire, to 25-degrees off-axis for an 8-wave long-wire. Most amateurs don't have room for anything greater than 8 wavelengths long, even on 10 Meters, so we won't discuss them here.

One thing that is overlooked is that these major lobes also display a radiation angle, (vertical angle), equal to the offset angle. By tilting the wire, the major lobes can be depressed to the horizon, which will make the antenna more unidirectional. A good compromise angle is 30-degrees, although even a 15 - 20 degree angle will produce a front-to-back ratio. This angle can be achieved with a 40-foot high support at one end, and a 10-foot high support at the other, with

overall lengths of 70 - 150 feet.

The offset feed point is used to enhance the unidirection characteristics and to feed the antler at a current node, which brings the feedpoint impedance down to a more manageable level. Basically, the feedpoint is 1/4-wave from the high end of the wire, with the total length of the wire being equal to an integral multiple of 1/2-wave, (1-wave, 1 1/2-wave, 2-wave, etc...) For the example, I will model this antler for 20 Meters, with a 1-wave version, and a 1 1/2-wave version:

1-Wave Tilted Wire

Frequency = 14.200 MHz
Total Length = 67.5 feet
Feedpoint = 16.5 feet
Approx. Gain = 2.5 dB

1 1/2-Wave Tilted Wire

Frequency = 14.200 MHz
Total Length = 101.5 feet
Feedpoint = 16.5 feet
Approx. Gain = 3.0 dB

The length of the 1 1/2-wave Tilted Wire may look familiar, and it should. A G5RV is 1 1/2-waves at 20 Meters, but is fed in the center. By moving the feed to the end, the feedpoint impedance will fall in the range of 130 - 170 Ohms, which, when fed through a 4:1 balun, and 50 ohm coax will yield an SWR of 1.6:1 or lower. This is easily in the range of even the most basic ATU's, and may be usable without a tuner at all.

The forward pattern will be about 90 - 120 degrees wide, with a F/B ratio of 6 - 20 dB, depending on tilt, height, etc... The 1-wave version, if fed directly with RG-8X or other 50-ohm coax, and, depending on the height of the feedpoint, will have an SWR from 1.4:1 to 2.5:1, and may need a tuner in line. The lightest weight feedline for the Tilted Wire would be 1/2-wave of twinlead from the feedpoint to the balun, and then coax to

the ATU. The 1/2-wave section will bring the same impedance down to the balun, and you won't have the weight of the balun at the feedpoint.

The principle can be extended out as far as you have room. Just keep the total length at an integral multiple of 1/2-wave, and the feedpoint at a 1/4-wave or 3/4-wave point from the end. Keep this design in mind for Field Day!

72/73, Keith, WB2VUO, QRP-L #582, scQRP 40, Tech Specialist (ARRL/WNY),
ARRL Life Member, VP/BARK, Beacon Chaircritter, Rochester VHF Group
Trustee, KB2YTW/B 10 Mtr QRPp Beacon (250 mW @ 28.2870 MHz)
"In the Depths of the Great Bergen (NY) Swamp...FN13ac"
Packet - wb2vuo@w2im.#wny.ny.usa.noam
Email - wb2vuo@juno.com

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: ed.welch@cheaha.com (ED WELCH)
Subject: [13288] FYBO report
Message-ID: <8D2D58C.0004000FD6.uuout@cheaha.com>

Rig: NorCal 40a es 1/4 vertical es dipole
KF4KRV
Location: Walter F. George Resvoir, Chattahoochee River
Lowest Temp: 45 w/HEAVY rains :)

Well, my camping-buddy/bro-in-law and I managed to get the pontoon boat loaded and running about 3:00 Friday afternoon and headed out from Lake Point Marina on the Chattahoochee River near Eufaula, Alabama. Folks in the southeast will recall that Friday was a day of some heavy-duty storms.

As we left the marina black clouds were rolling in and the protected water we were traveling on was pretty choppy. Knowing that the open water of the lake would be pretty bad and that the intended campsite on Gopher Island (abt 15 miles south) would be a problematic mooring site for the boat we opted for the nearby state park campground. We had to pass under a highway overpass to get to the camp and as we neared it the bottom fell out. This wasn't a normal heavy rain, mind you, but one that slung down stinging drops of rain. I kept looking around expecting to see hail hopping around the boat. Heck, the velocity of the rain would've driven a tough-hided badger into hiding! It was so heavy that we had to hold the brim of our gortex hats up because the rain was knocking it down obscuring our vision. Vision was abt 20' ahead of the boat, but we were just barely moving....

We finally found the campsite, found a spot for the tent(easy to find a good spot for a tent when it's a lashing rain going on.....look for the spot that ain't covered by water!). Dried things up a tad, had supper, and croaked early.

Saturday morning we awoke with a beautiful blue sky and abt a 2' rise in the river level. Bill started working on his famous omelets and I strung a dipole up (Bill did a great job on the omelets, but I only got the dipole up abt 10'.) A started calling CQ and first got N5GW in Vicksburg, MS. Running a homebrew, battery-powerd xceiver at a whopping 1 watt into a zep at abt 40'. He had a gud signal, abt a 349. He gave me a 569. Good QSO. Solid copy.

The only other QSO before we loaded the boat back up was with K2SSE in Brooksville, FL. He was running 4 watts into a rotary dipole. Good solid copy on this one, too. The nice part of this one is that I had email from him waiting on me when I returned home. He'd told me that in

the QSO that he was at a hamfest. He had a ham (QR0) friend with him at the tailgate during the QSO and the guy couldn't believe we had such a good QSO with 2 and 4 watts. Maybe a convert in the making? :)

Well, the omelets got ate, the coffee drank, things packed up and we headed out to the river to make the 20 mile trip to Gopher Island. The river/lake was choppy, the sky was blue, 'twas a nice ride. We arrived at the island to find the nice, sandy beach that was the SW point of the island covered by water....the recent rains had covered my spot! :(Not to despair we eased around the point to the SE side of the island and found a good mooring spot, crawled up the bank and found an excellent campsite. Nice view, too! :) Got things set up and raised the 1/4 vertical. Had a little trouble here and the HB thin-walled aluminum antenna buckled as we raised it. Luckily I had an extra piece of tubing in the boat the size of what I needed and had the tube cutter, too! Repaired it and raised it. Didn't work any CW that evening....enjoyed some Fosters instead.<grin> Did watch a beautiful sunset and an equally beautiful moonrise, though! Went to sleep to the tune of the choppy waves slapping into the shore.

Sunday morning our alarm clock went off at sunrise.....hundreds (thousands?) of Canadian geese sounding their horns, all yelling for a place at the breakfast table along the shoreline. I never came out of the sleeping back to crank the 40a up....it was kinda comfortable there! Got her going and proceeded to contact with WA400D in Cary, NC (RST 569), KB3AWR in Pittsburgh, PA (RST 559), W4LVP in Johnson City, TN(RST 569-armchair), and W4WF in Bristol, TN (RST 549). Had a blast. Not a lot of contacts, but enough to keep me interested. Anybody happening up on us as we camped would've really been scratching their head....me sitting their with headphones and key and Bill practicing magic tricks (he's an amateur magician).<g>

Well, we had to go home. We loaded the boat, cruised the shoreline for an hour or so. Headed back out to the main channel for the trip back home. The wx was changing and the swells on the lake were beginning to get fairly deep. Water splashing onto the deck of the pontoon boat...it was great. We got out in the center of the lake where it was the roughest we killed the motor....it was time for our traditional "going in" dinner. Viennas, sardines, canned smoked oysters, celery(gotta have the greens), chunk tuna, es crackers! It was great dining!<grin> After toasting with some "Very Old Ray" (local rye) we checked our fleece, button down the gortex, cranked 'er up and made the 15 mile dash back to the marina.

It was a great weekend all the way around...camping, hamming, enjoying nature. It'll keep me pumped up for a while....but withdrawal will come and we'll have to do it again.....QTTF? :)

Had a 75 mile drive home, was exhausted. :)

Enjoyed the weekend....FB

72/73

Ed Welch KF4KRV

QRP-L #873

Luverne, Alabama

Crenshaw County - Grid EM61

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+-----+  
-----+ Norcal 40a es Straight Key es Wire-wrapped Trees +-----  
+-----+
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> Isn't "time" a 4-letter word? <

From owner-qrp-l@Lehigh.EDU Fri Feb 28 18:07:17 1997

From: Harry Popov <popov@sof.omega.bg>

Subject: [13260] Greetings from Bulgaria!

Message-ID: <199702272339.BAA02592@sof.omega.bg>

Hallo fellows QRPers from USA,

I am Harry from Bulgaria and my call is LZ1BB. I do belong to G QRP club.

I was reading the digest for some time. Unfortunately I pay for every kilobyte received. If you are looking the news you should understand why I have to postpone the digest mail. I do this with great regret anyway.

I am 35 years old and have been a ham since 1972, when I was 11. I love QRP VHF DXing and home brewing. I am married for Maria and we have two boys. Dimiter is 10 and Liubomir is 8 years old.

Instead the diagram of my last project I will give you some figures. Please read them and excuse me that I am using the list not for hamming. I'm giving them in USD equivalent for better understanding.

The inkome of the everage Bulgarian is 7\$ per month. The everage heating bill is 4\$. One bread daily is another 5\$. That is already more then the income.

The pharmacies are closed. No medicines. The hospitalities are closing down because they can not pay their bills. If some body get sick here it is better to go...

Today we got the news from the national BC radiostation that since 1st of March the price of the electricity will rise up 2.57 times (257%). The heating bills will go up more then 200%. That means every price will jump

too.

My personal situation:

I am a self employed and my income is much higher than the average Bulgarian. I can pay my electricity bill, an apartment rent bill. I can buy one bread daily and even some potatoes. That is all. I am working more than 12 hours with all my brain and muscles. Any way I am frightened what will happen with my children since 1st of March. The prices will jump up and the income will be the same. And I am asking my self how long I will be in good shape. I eat once per day and bread and potatoes only. The rest is for the children...

Me and my family are in DISASTER! I wonder how my sons still have excellent marks at school. They are good schoolboys. I am a good worker. My wife is loving mother and wife. But we are hungry.

Which is the worst. The communism is still alive here. Every thing in the last 7 years seems to be a big theater.

I need your help my dear fellows QRPers. I need your donations. I need them to feed my family first and to live the country. I must immigrate to survive.

Please every one who can help drop me a line. If you could not help with as little donation as the price of a cup of coffee drop me a line too. Perhaps you could give me some courage and optimism. I need them also.

Once more please excuse me that I broke the rules of the QRP-L.

God bless you!

72! Harry LZ1BB G-QRP #4210 QRP-L #1025 YL-SSB #14074

e-mail: popov@sof.omega.bg

Net-Tamer V 1.07X; Beta - Registered

From owner-qrp-l@Lehigh.EDU Fri Feb 28 18:07:17 1997

From: haf47@juno.com (HOWARD A FRIEDMAN)

Subject: [13320] Grid dip meter

Message-ID: <19970228.142745.2311.2.haf47@juno.com>

Hi gang, I am in need of an old Heath tube type grid dip meter. I recently used one and find it more to my liking than my solid state one.

If you're looking to part with one please let me know.

thanks es 73, Howard

haf47@juno.com
WA2AFD @ WA2UMX.NY
QRP-L # 1008

From owner-qrp-l@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: Mike Duke <gmduke@oscar.teclink.net>
Subject: [13268] HEARD MY FIRST 38 SPECIAL TODAY
Message-ID: <Pine.GS0.3.95.970227191125.9234F-1000000@oscar.teclink.net>

I was checking out a newly acquired Explorer, using a rain gutter
for a receiving antenna when I heard K8IQY at 559 with a 3 watt 38S.
Sounded good. I've got to work on the rain gutter connection before I can
transmit.

73, de K5XU

Mike Duke,
Jackson, MS

From owner-qrp-l@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: kc4mhm@juno.com (ed miller)
Subject: [13331] HELP
Message-ID: <19970217.103753.4791.0.KC4MHM@juno.com>

Dear group in general and JUNO users in particular;
I am a new user of QRP-l and had several questions so I asked for
the help files. I received them promptly but JUNO must not like them
because when I tried to read the help message I got a major error. If I
do not try to read the help message all is fine but I can not erase it
because when I access it JUNO locks up. I can dump all of JUNO from
memory and reload it but will loose some fine info that has been posted.
I tried the SYSEDIT command in the program manager run box but could not
find any thing about the JUNO.EXE@ 000D:6FAA location where the error is.
If anyone can suggest something I would appricate it.

Thank You
73 from Ed KC4MHM

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: buhyoff@vt.edu (Greg Buhyoff)
Subject: [13298] Help in reserching my call
Message-ID: <v01540b02af3c779924ff@[128.173.78.57]>

I know this may getting old --- another request to research an old call.
However, I do not know where I can turn and given the courtesy of this
reflector, I will make an attempt here. I would like to know anything
about the assignment history of my call K2UM.

I very much appreciate any assistance and am most grateful for this
reflector and the contributions of the folks here. Thank you.

73, Greg K2UM

=====
Greg Buhyoff
Julian N. Cheatham Professor
Virginia Polytechnic Institute and State University
Blacksburg, Virginia 24061

Office Phone: 540-231-5148
Fax: 540-231-3698
E-mail: Buhyoff@vt.edu

=====
From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: W0rw@kktv.com
Subject: [13252] HI QRP
Message-ID: <199702272123.QAA157969@nss2.CC.Lehigh.EDU>

Tnx for asking about HI QRP contacts. KH6AFS is alive and
well. KH6AFS is very
active on CW. I work at it also. I just installed a delta loop beam for
40 cw. I should be on shortly with QRP, maybe with my new Wilderness

NC40A. I entered the ARRL SS on cw QRP and had much fun at a camp site on the beach in November 1996.

Be sure to look for special event station Aloha: AL0HA operating from Moku Ola Island April 19-20. Will be active especially 40 thru 10 meters, emphasis on 7040 and 14060 QRP. Also Hawaii Chapter QCWA to operate ARRL Field Day as CW QRP using club call KH6AN.

Hope to work you QRP to QRP. I worked QRP from a campsite in Kona, Hawaii January 24-26 and worked QRP to QRP to Arizona and Idaho. Your message is getting thru and we are up to it! 73 and Aloha.

Dean Manley

Kh6b@juno.com

From owner-qrp-l@Lehigh.EDU Fri Feb 28 18:07:17 1997

From: ericvia@why.net (Eric Via)

Subject: [13286] I have decided on a rig...

Message-ID: <v01520d08ad58bb2eccf7@[207.211.121.43]>

Fine QRP folks,

After posting that I needed a rig - I was overwhelmed with very nice offers from many of you!

I have decided to go with a HW-8.

Thank you SO MUCH to all of you who responded with not only offers, but kind advice to this beginner QRPr!

I very much look forward to getting this rig - getting it set up - and working all of you!

72 Eric AD4SS Wylie, TX

Father, Husband, Writer, Pro-Choice, Anti-More-Gun-Control,
Ham Op (AD4SS), Beer-maker, Mercedes lover, Spelunker,
South Carolinian, Mac-head, dog-lover, clown, EX-smoker,
Libertarian, Dreamer,

My Page: <http://www.why.net/users/ericvia/pershome.html>

My Mercedes Benz page: <http://www.why.net/users/ericvia/ericmb.html>

Subscribe to ELECTRIC BACON ezine (free) - ask for details!

-----oOo-----

"What country can preserve its liberties, if its rulers are not warned from time to time that this people preserve the spirit of resistance? Let them take arms." - Thomas Jefferson

From owner-qrp-l@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: John Dorson <jdorson@bbs.mpcs.com>
Subject: [13344] i need a ft50-43 toroid
Message-ID: <199702282307.SAA14118@bbs.mpcs.com>

can anyone help. i need to wind a 4:1 balun for my tuner so i can use it for the slv i am building. will be glen to pay for it plus shipping...

John Dorson
3236 Sand Dunes Court
Melbourne Beach, FL 32951

Thank You

John Dorson Real Estate Consultant in Melbourne Beach, Brevard County Florida
E-Mail To: jdorson@bbs.mpcs.com

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| Trying for WAS -      AL,AK,AZ,AR,CA,CO,CT,FL,GA,IL,IA,KS,KY,LA,ME,MD,MA|
| and worked these:    MI,MN,MT,NH,NJ,NY,NC,ND,OH,OK,OR,PA,RI,TX,VT,VA,WA|
|                      WI                                           |
|-----
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K2JHU only QRP... CQC #351, GQRP # 9092, QRP-L #672

From owner-qrp-l@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: QLF%mini@magic.itg.ti.com
Subject: [13316] K3TKS K3TKS K3TKS DE WBOCGH WBOCGH WBOCGH
Message-ID: <9702281820.AA20730@itg.ti.com>

From: Brad Bradfield QLF

Subj: K3TKS K3TKS K3TKS DE WBOCGH WBOCGH WBOCGH

Sorry for the bandwidth folks - -

G. Danny Gingell, K3TKS: Drop me a note. Lost your e-mail address. Think you

wanted a copy of the Johnson Matchbox manual. Sorry about that. Been busy and forgot to do it. Will get it in the mail today.

72's es 73's,

Brad, WB0CGH

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*****
Brad Bradfield, PE                      Electrical Design Engineer
(H) 817-321-2960                        Texas Instruments, Inc.
(W) 972-462-6230                        (Soon to be: Raytheon/TI Systems)
                                         Real men talk with their fingers!
```

QLF@MSG.TI.COM

WB0CGH@W05H.#DFW.TX.USA.NA

ARRL Life Member QRP-L #377 SMIRK #4906 IEEE(M) ARS #72

Collector of wireless and landline Morse keys and accessories.

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*****
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From owner-qrp-l@Lehigh.EDU Fri Feb 28 18:07:17 1997

From: Doug Hendricks <ki6ds@dpol.k12.ca.us>

Subject: [13312] Kit Problem Ettiquette

Message-ID: <1.5.4.16.19970228100025.279f4f14@telis.org>

Guys, I want to compliment the list on the way that you have handled the problem with the bad crystal in the 38 Special kit. As you know, we got a batch of bad crystals that were third overtone instead of fundamental for the VX0 crystal. I posted to the net that NorCal would replace them, and that all that was necessary was that you send me your name and address if you had a crystal marked Koyo, 22.1184, 87-35. No SASE or money required, we are set up to handle the problem. I have not seen one complaint on the list, and this is appreciated. We were embarrassed that it happened, and we did the only thing possible, made steps to correct it.

Now to the second part of my posting. When you order a kit, either from a club or a commercial company, the very first thing that you should do is check the parts to make sure that they are all there. If you find a shortage, notify the company or the club, and do it immediately. It is not fair to the supplier if you buy a kit, let it sit on the shelf for 6 months, and then discover that you are missing XYZ part. Mistakes happen, and we are human. Every commercial company that I know of doing QRP kits now will replace parts with no questions asked, at their expense, but, and this is the important part, they must know about it. Take responsibility, inventory your kit, and let the supplier know if there is a problem. But, don't post it to qrp-l before you contact the supplier. Give him a chance to rectify the situation first. Why? Because to the casual reader it gives the wrong impression, that XYZ company or club is not careful, doesn't do a good job, etc. Because, the guy who posts to the net that he is missing XYZ part or

having a problem, hardly ever posts that he got the part, etc.

Some of the commercial QRP kit vendors have sent me private email about another "problem" that they see with qrp-l. They asked me to post, because I have no vested interest, and it won't be self serving. If you have a problem with a kit, please contact the commercial company first. Give the guys a chance. I'll wager that 95% of the time they will be able to help you with the problem immediately, because they have seen it before. Don't post it to the list until you have tried the vendor. It will save everyone a lot of time. Now, some of you may say, but what about alerting the rest of the list to a problem so that they will be aware. Sure that is what this list is about, but if you get the problem solved through the vendor, you can be a hero, not only can you post the alert, but you can post the solution, and I would always add creditbility by quoting the source, the vendor himself. But what happens if you contact the vendor and he doesn't have a solution? Why, then go to the list, but be polite about it. Do it with class. Say that you have XYZ problem, that you have contacted the vendor, and he couldn't solve it, does anyone have any ideas, etc. That is only fair.

The commercial kit companies do a wonderful job. They are all fine companies, every one of them. We need to support them, to help them, and most of all, to work with them. Now a word about NorCal kits. NorCal kits are different. They are field tests of designs that have been tested, but not nearly as much as a commercial kit, and that is one of the reasons that they cost a lot less. We know that they work, but we only have a small sample that has been built. NorCal kits go out to the masses and the feedback that we get on qrp-l is wonderful. We love it. You are the test engineers. What you are working with in a NorCal kit would be called a beta test with a commercial product. We want you to post the problems that you are having with our kits to the net, so that we and I emphasize the word we, can help you. NorCal is a club, not a company. There is no engineer on staff waiting for you to call. No, the tech support staff of NorCal is made up of all the guys on qrp-l and our other members. Ok, here is the bottom line. If you have a problem with a commercial kit, call the vendor first, then post to the list. If you have a problem with a NorCal kit and have not seen the answer on qrp-l, post to the list and ask for help. There is one more step that common courtesy requires. If you post a problem, you have a responsibility to post when you get it resolved. Thank the person or persons responsible. It gives closure to the problem, and that is important. I would think that the other clubs would agree with this, but will let them post their own ideas.

This posting is not a knee jerk reaction to any particular posting. It is something that I have been thinking about for a long time, and I finally decided to post. QRP is fun, building is fun, and learning is fun. Stay positive, have a good week and trust your fellow man. See you in Dayton. By the way, anyone going to post the weather for us this year? (I had to do it.) 72, Doug, KI6DS

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: "Len W. Touth" <len@infinet.com>
Subject: [13270] KIT REPORT Abbreviated : OHR WM2
Message-ID: <199702280206.VAA12494@mail1.infinet.com>

Hi Gang:

Just a quick note.

I received my WM-2 today from OHR that I purchased through the group buy.
This is a multiple range (10 watts, 1 watt, 100 mw) power and SWR meter kit for QRP operations.

What a great meter. Excellent instructions, very high quality parts and a good board. It took me about 3 1/2 hours to complete (I took my time and really did a FB job), but you could assemble it in less time if you wanted to and are an experienced kit builder. There are two toroids to wind, and a few other assembly points that demand just a little more concentration than usual, but the rest of the assembly straight forward.

Tune-up requires a VOM meter (digital VOM). You adjust four trim pots for voltage and meter deflection, and you are done.

The accuracy of this meter is outstanding. I have a feeling it will be one of those QRP shack additions that I will constantly use and wonder why I had not purchased and built one sooner. I understand that Dick recently upgraded the kit with a better meter. I have not had the opportunity to compare with an older kit, but I can tell you that the meter on my kit is outstanding.

Dick and staff have a great QRP meter here. If you need a dedicated QRP SWR/power meter that is ranged for QRP power levels, you might want to consider the WM-2.

Usual disclaimers please

If interested, a comprehensive report will be available on the CQrp web site by Friday 2/28.

Best 72/3

Len

KG8SF

len@infinet.com

KG8SF@key.com

QRP-L # 841 CQrp # 2 ARCI # 9025 FISTS # 2134

HF Digital Communications - CW/Pactor/G-Tor/RTTY/Amtor
CHARTER MEMBER - THE COLUMBUS QRP CLUB - CQrp
Web Page: <http://www.infinet.com/~len>

From owner-qrp-l@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: svecbrdk@well.com (L.Svec,W.Burdick)
Subject: [13335] Last day for Sierra special (Wilderness)
Message-ID: <199702282150.NAA27314@mail.well.com>

QSP from Bob Dyer, KD6VIO, at Wilderness Radio:

If you were hoping to get a free noiseblanker kit with your Wilderness
Sierra order, tomorrow's the last day. If you order by mail, you'll need
to get it post-marked by tomorrow; you could also call and try to convince
Bob to hold one for you :)

His number is 415-494-3806.

73,
Wayne
N6KR

From owner-qrp-l@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: "Alan Slusher" <slusher@sunbeach.net>
Subject: [13276] LDG QRP Tuner
Message-ID: <03021545604494@sunbeach.net>

Another one lives, even though the test contact with W1DQ in CT was only
barely a contact (RST 229 for me and 559 for him). But then I was running
a Ten Tec 509 at 2 watts on 7Mhz through coax to a G5RV.

Thanks, Dwayne.

72 Alan 8P9BM

From owner-qrp-l@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: Mike Robinson <miker@cc.com>
Subject: [13251] Looking?
Message-ID: <9702272056.AA06708@voder.nsc.com>

Just a reminder. If you're looking to work in:

Arlington, Texas
Portland, Maine
Santa Clara, California

Fields:

EE
CS
IS

My company is hiring. Send your resume to me.
If you're hired, I get a cash bonus.

That means more radios!
Like my call says: Need 7 More Radios (N7MR)

=====
7.3 de Michael N7MR miker@cc.com michael@frii.com
 http://www.frii.com/~michael
 QRP-L #126 Norcal #857 CQC #180
=====

From owner-qrp-l@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: ka7you@juno.com
Subject: [13272] Lost time (ramblings of an OF) long
Message-ID: <19970227.182336.14215.8.KA7YOU@juno.com>

Recently there was a posting about the time spent reading these postings,
instead of getting on the air, etc...

I've been thinking about that, and realized that since july (when I
joined the list), I have completed three kits, started four others, and
have four more still waiting for the first solder blob. Two other kits
are still on the way(hopefully), and the workbench is piled so high that

I can't find anything any more. The operating position is in such disarray that I can't use it, and I'm losing track of parts that I bought to finish or 'mod' the various kits. I haven't balanced the checkbook in over six months, and the yard and our motor fleet is a mess.....but I just passed my 52 year mark on this good earth, and an I AM HAVING A BLAST!

I just bought a plastic multi-drawer parts cabinet. It is not for regular junk box parts (I have several of those already) but to dedicate a drawer to each "project". I've decided this is a way that I can keep track of those small bits as they arrive, or are discovered (re-discovered?) for each kit or project.

Some time ago I realized that if each time I wanted to build some small circuit and needed a specific part, I would never get a 'round tu'it', to get it ordered. We all know about the fifty cent part that is not available at RS, and costs \$3.50 or more by the time it arrives from you favorite mail order emporium. So I go to the parts lists and order parts for several projects, and then when they arrive, the bag used to get buried on the bench. By the time it surfaces again, I've usually forgotten what specific projects they were to go with (I told you I was over 50, and the memory....)

I am hoping that If I can just get the parts to their respective little drawers first, I'll have a little better luck finding that needed "round tu'it", and get a few more projects completed.

The NC38S, CMOS III keyer, Rainbow Tuner, WM-2, AT-11 tuner, Tick keyer, Pixie II, and spectrum analyser projects now all have a spot for their respective components and a copy of the parts list. Now if I could just find all the articles I've printed out, about the NC38S mods....

7 3,

Rod Johnson KA7YOU CN97AK near Issaquah, Wa. 160M thru 1296 MHz
NWQRP#120 ARCI#7251
QRP-L#844

From owner-qrp-l@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: kh6b@juno.com (Dean W Manley)
Subject: [13264] Moku Ola Island DXpedition
Message-ID: <19970227.102638.8135.2.kh6b@juno.com>

The fifth annual DXpedition to Moku Ola Island, an island in the North Pacific at approximate coordinates 19.7462 north 155.5843 west, will take place April 19 and 20. Co-sponsored by Hawaii Chapter QCWA, this special event station will use the call sign AL0HA. Station Aloha club call belongs to the Coconut Island DX Association. Planned antennas are 1: multiband vertical in the bay using salt-water ground and 2: a tilted half rhombic spanning the length of the island. Both cw and ssb on 160 thru 10 meters. Special emphasis QRP frequencies 7040, 14060 kHz. Special QSL cards will be sent upon receiving yours. SASE appreciated.

QSL via Dean Manley KH6B, 2058 Ainaola Drive, Hilo, HI 96720-3638.

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: Dennis Marandos <k1lgq@dennis.mv.com>
Subject: [13278] MY FYBO SUCKED WORSE THAN YOURS?
Message-ID: <1.5.4.32.19970228032521.0032b168@pop-1nh.mv.net>

This may sound a bit funny now, but when it occurred, it was...well, my story follows.

I had been waiting since QRP AFIELD, vlast September, to polish up the old gear and get it into running order so I could freeze my buns off in New Hampshire. I know that the temperature in the northeast is a lot lower than it is hundreds of miles south, so I KNEW I had a running chance. Man, the multiplier was well worth it!

Saturday was pretty ordinary except for the temperature. It was so mild in New Hampshire, you would have thought it was the middle of June. I grabbed all my gear, which was sitting in a box PATRICK had played with in my last story in the field. I went to the back side of Greeley Park (a nice city park in Nashua, NH) and took my box of QRP gear out for the big FYBO TEST! The sun was shining, the birds were singing and the teenage Dungeons and Dragons were playing "over there" away from me.

I set up my yellow card table, shot my only arrow into a 100 foot pine tree and was ready to connect all the wires. The time was about 12:30 local time and I just couldn't wait to get started. W1KZE - Ken dropped by to see what I was doing and helped me finish pulling the string through the pine tree so my 100 foot vertical was tight and ready. Man, I was psyched!

All the connections were mde, my NorCal 40a was turned on and sweet CW warfed through my headphones as I tuned the band. I made a contact with a fellow in Catham, New Jersey who said I had a pretty fair signal. Another QSO 15 minutes later with a western New York station and the signals just kept pouring through my earphones. Another QSO with a our neighbors to the north, Ontario...just 35 miles north west of Niagara Falls. This was great...the signals are getting out, I am hearing GW3s, 9S52s, and even a few W5s were coming through...but then the wind started to pick up a bit. No problem...the sun was warmand the breeze was really strange for February. I loved it!

But, the wind really picked up. I mean, the wind picked up so much that it started to shake the pine trees, mine included. My log sheets were blown off my operating table across the field I was sitting in and up the street they flew. My note pads was blown in a hundred directions with paper swirling in front of my eyes like a funnel wind had opened its door where I was sitting. Then the trees were really shaking and shook so hard, it pull my tuner off the table onto the ground. The tops of the trees were swaying 8 to 12 feet side to side without a moments rest. The roar of the wind was

crashing in on me also, so loudly that the CW I was listening to was blocked out. I couldn't hear a thing except the roar of thousands of freight cars rolling by my station scaring the hell out of me. Then the thunder cracked across the sky with a rocket trace of lightening overhead. My operating table was hovering before my eyes and was off the ground. Honest to God, I thought I was in the Wizzard of OZ! It was scary and I scrambled to gather all my gear and head for the car.

I got the small things into the radio box, ran to the car door and threw it into the back seat. I ran to the site again and folded up my card table and ran to the car again, only this time I opened the back of the station wagon and threw in my yellow table into anything it landed on. Finally I went back for the antenna and yanked that sucker off the tree. I rolled it up as fast as I could without kinking it, for what reason I don't know.

I ran to the car, jumped in and headed home. Phew, this was a contest? Yes, to see how fast you could tear down a station in case of an emergency. Well, I won!

I went home and was so peeved for having only three QSOs that I then went to gym and worked off my stress! Big time. But, now, wouldn't you know the rest of the story gets better. Thirty minutes after all this occurred, the sun came back out, the birds sang and I sat in my car and cried!

See you September 20 for QRP AFIELD.

Dennis Marandos - K1LGQ
Editor - New England QRP Club newsletter
Nashua, NH

From owner-qrp-l@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: Stephen Hawkins <sjhawk2@PacBell.COM>
Subject: [13309] NC40a advice???
Message-ID: <3.0.1.16.19970228074016.3a57680e@atlas.bsrn2420.pacbell.com>

Hello QRP,

I just sent my check to Wilderness Radio for a NC40a + KC1. I have not put a kit together since my HW-8 in 1979 or 80. Could those of you who have built the NC40 and feel you have valuable tips or advice about this radio or kitting in general I would appreciate it if you would send them to me. So as not to add to the huge amount of mail on the list please E-mail them to me at sjhawk2@pacbell.com

Thank you for the best mailing list in the world.

Steve WV6U

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: Joe Gervais <vole@primenet.com>
Subject: [13257] ND QRP Hiding in the Hunt!
Message-ID: <199702272245.PAA17043@usr11.primenet.com>

Howdy Folks,

Did anyone else almost let this slip by (like me)?

>From Jack (W5TFB)'s Fox log:

65 34 W0JDZ 259 599 ND MAC 5W

ND QRP! Find this person! Bribe him! Offer him a starring role opposite that "Hey Vern" guy in his next movie! ANYTHING!!!

whew There, I feel better....

Cheers de AB7TT,

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)

2-Way QRP WAS: 44 (Need: HI, ND, ME, RI, VA, WV),
QRP WAS: Done!
QRP DXCC: 5

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: "CHRIS KB5VYB" <guardianone@mvitel.net>
Subject: [13348] need info on UDT-170
Message-ID: <9702282345.AA22297@host.ot.centuryinter.net>

Group

Any help will be appreciated. It was made by XITEX CORP, it is called Universal Data Transceiver 170. Hence UDT-170.

It is for CW, RTTY. Question is, does it need software?????
The way the manual reads it doesn't. Also does it need a special monitor??? Lots of questions here! THANKS in advance for any and all help.

72 73 Chris KB5VYB QRP-L # 853 AK/QRP #38 AR/QRP #32 NC38S# 540

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: ed.welch@cheaha.com (ED WELCH)
Subject: [13282] No Envelopes needed for Crystals
Message-ID: <8D2D493.0004000FC3.uuout@cheaha.com>

-> today). The crystals must be sent in a padded envelope, or our
-> friends at the Post Office will rip the envelopes up in their
-> automatic mail sorting machines. 72, Doug, KI6DS

I got my compiled '96 QRPP on the 25th in the priority mail envelope,
tnx. I didn't check the postmark and my xyl threw the envelope in the
trash before I thought to check. Anyhow, the envelope looked like some
one had held it against the spinning fanblades of a v-8 engine, then
thrown on the floor and stomped on by a herd of badgers wearing black,
horn-rimmed glasses, overcoats, and trying to immitate the Blues
Brothers. I mean, the envelope was in BAD shape! The USPS was
nice enough to stamp on it "Damaged Within Postal Service" or
something to that effect....nice of 'em, eh? Happily the copy of QRPP
was in FB shape with only a couple of very small wrinkles!!!! :)

Anyhow, getting back to the point.....yelp, the xtals *positively* need
a good padded envelopes. I believe a simple brown manila envelope
would probably be chewed up and spit out.

Hmm, thinking back to that priority envelope it's seems I remember a
designed semi-imprinted on it....maybe a fork-lift tire track?<groan>

Anyhow, thought I'd throw my 2 cents worth in. Take care and ya'll are
doing an EXCELLENT JOB!!!!!! FB!!!!!!

72/73

Ed Welch KF4KRV

QRP-L #873

Luverne, Alabama

Crenshaw County - Grid EM61

+-----+
-----+ Norcal 40a es Straight Key es Wire-wrapped Trees +-----
+-----+

> Isn't "time" a 4-letter word? <

From owner-qrp-l@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: "Bob Tellefsen-CNSE97" <Bob_Tellefsen-CNSE97@email.mot.com>
Subject: [13274] Noise
Message-ID: <M1311790.001.akbs0.1.970228023103Z.CC-MAIL*/OU=LMPCC10/OU=ILBE/
PRMD=MOT/ADMD=MOT/C=US/@MHS>

Gary:

Interesting that you get the noise between 7036 and 7037 too. I'm up here in the SF Bay area, so unlikely it's a local noise source unless maybe something common all over like cable TV?

72, Bob N6WG

From owner-qrp-l@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: TMOLL@aol.com
Subject: [13254] Noise level
Message-ID: <970227165025_-870823448@emout01.mail.aol.com>

Someone recently posted -

<< My theory is that everyone lives in a lower noise area than I do, so have more
signal left above the noise level than at my QTH. >>

I agree - my situation exactly. I have "proof." The other evening I took my "new" rig over to a fellow ham's house. He and I talk frequently on the phone while we are also working the bands and comparing notes. I can tell by listening over the phone that he hears better than me, and it seems to be largely due to difference in noise level. It is interesting that we can both listen to our own and each other's receivers simultaneously this way and have also noted how the qsb is different between our locations while listening to the same signal. It might be strong at my qth while weaker at his and vice versa. But overall, I can tell signals are higher above the noise level at his qth. We live about 20 miles apart. The other evening I took my rig to his house to compare notes. My receiver seemed to compare favorably to his receivers as we switched between them using the same antenna. The band seemed very quiet (noise level) to me, and we made several qrp contacts without any problem. I drove home and connected my rig back up, only to hear a completely "different sounding" band. I doubt it changed that much during my drive home - its my ambient noise level. And this after I got the power company to fix the sodium light down the street that was really a problem! Another interesting fact is that he lives close to the heart of the city (Minneapolis) and I live just far enough out to be semi-rural. I have "shut down" my house electrically to make sure my noise is not internally generated too. Its still there. So, this isn't exactly a scientific study, but, I am convinced that some people DO have advantageous low noise environments for what ever reason.

Tom, NoBS

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: mvjfm@mvubr.mv.lucent.com (James M Fitton +1 508 960 2577)
Subject: [13299] Olde Tyme Radio
Message-ID: <199702281324.IAA20499@alig1.firewall.lucent.com>

Thurs. / 160 meters:

Worked a stn last eve. from Maine who was running a
Cake Pan 5 - 2 tube crystal controlled transmitter,
and a 2 tube regen. receiver @ 8:30 pm.

Thurs. / 80 meters:

The Colorburst Sprint, 3.579 MHz (9-10 pm EST) featured
many xtal controlled stations, some using tube transmitters.
(Hollow state)

Sprint manager KF8EE/x (x for Xtal), noticed that many stations
were keying hand keys, as well.

Next Thurs., look for W1FMR/x keying with the old Vibroplex bug
(.... Jim the LID).

Just like the 1954 Novice days all over again !!!!
(But more frustrating)

It is difficult to make contacts, with everybody hovering
around one frequency.

You call CQ, then start tuning around for a reply.....

There were some EXCELLENT operators on last evening !

K2LGJ/x and W1XP/x are prime examples....

72 Jim W1FMR/x

From owner-qrp-l@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: ericvia@why.net (Eric Via)
Subject: [13308] On Clowns and QRP
Message-ID: <v01520d00ad59540f761c@[207.211.121.141]>

Fine folks,

I certainly meant no offense at speaking of a
"clown" that built an antenna out of beer cans!

Why if you'll look carefully at my huge and ugly
Sig below - you'll see that I myself am a clown!

..Just wanted to make that clear...

Oh - and I must say that after being on this list
for a few days - I LOVE IT! I mean I love you
people! The bickering is at a minimum - sure there's
the odd scuffle or bruised ego or two - but all in all
I'm amazed at what great folks you are! I'm also a
big fan of Mercedes-Benz cars, and was on a mailing
list that pumped out around 100-200 messages a day -
lots of fighting going on - but you know what the key
is? The key is when you reply to a msg on this list you
don't automatically go to the whole list! THAT makes a
big difference in BW and fun!

Enough rambling! Hope to see you all on the airwaves
SOON - my HW-8 is on the way soon!

72/3 Eric AD4SS

Father, Husband, Writer, Pro-Choice, Anti-More-Gun-Control,
Ham Op (AD4SS), Beer-maker, Mercedes lover, Spelunker,
South Carolinian, Mac-head, dog-lover, clown, EX-smoker,
Libertarian, Dreamer,

My Page: <http://www.why.net/users/ericvia/pershome.html>

My Mercedes Benz page: <http://www.why.net/users/ericvia/ericmb.html>

Subscribe to ELECTRIC BACON ezine (free) - ask for details!

-----oOo-----

"What country can preserve its liberties, if its rulers are not
warned from time to time that this people preserve the spirit of
resistance? Let them take arms." - Thomas Jefferson

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: mdwatt@usit.net (Marty Watt)
Subject: [13303] Oscope usage
Message-ID: <33165e32.79216910@smtp.usit.net>

I recently acquired one of the cheap RS Probe Scopes. I have no idea how to use it to display useful information, particularly to look at signal clean-ness (CW waveform) to ensure I have no key clicks, etc.

The scope has several settings, int/ext/auto trigger, can be set for 1, 10, or 100V, AC/DC, with timebase settings of 5nS to 100uS (or some such as that).

Can someone direct me to, or send me, a primer on how to use an O-scope for radio applications (or any applications, for that matter!)

Tnx!

72 es 73 de=20
Marty, KM7W

Jackson, Tennessee e-mail: mdwatt@usit.net
http://www.public.usit.net/mdwatt
"The Curmudgeon's Corner"
NorCal - QRP ARCI #7514 - QRP-L #953 - AK/QRP #098 - Grid Sq EM55oq

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: James Parsons <k5rov1@worldnet.att.net>
Subject: [13265] QRP nonsense
Message-ID: <1.5.4.32.19970228001243.0069daf8@204.127.3.1>

>From: km1h@juno.com
>To: ham-tech@majordomo.netcom.com
>Sender: owner-ham-tech@majordomo.netcom.com
>Errors-To: owner-ham-tech@majordomo.netcom.com
>Reply-To: km1h@juno.com

>Subject: QRP nonsense
>X-Juno-Line-Breaks: 0-11
>X-misc: To unsubscribe, send a message to listserv@majordomo.netcom.com
>X-misc: with the body "unsubscribe ham-tech"
>Date: Thu, 27 Feb 97 22:45:59 +0000
>
>
>
>Have you actually listened to the QRP frequencies lately??
>I have never, in over 40 yrs as a ham, heard such poor signals. They
>drift, they chirp, key clicks are common, etc. This is progress????
>The QRPers are so deep into cheap that they have lost the concept of
>quality.
>
>The QRPers are a problem...not a solution IMHO.
>
>73....Carl KM1H
>

Gosh....does this really describe me?

Jim, K5ROV

EX: KA2FC (JAPAN), KA2JP (JAPAN), SV0WN (CRETE), SV0WN (RHODES),
DL4NC, W1RLA, K4FEO, K5FBB

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: wb2vuo@juno.com (William K Hibbert)
Subject: [13333] QRP/QRO Switching for the Ten-Tec Scout
Message-ID: <19970228.162837.7799.1.wb2vuo@juno.com>

After a few questions about the Argo vs the Scout for QRP, I looked in the manual and think that a mod to make the Scout switchable would actually be quite simple and elegant...

By comparing the Main Wiring Diagrams for the Scout (Figure 3-23) and the Argo (Figure 3-24), the only difference is the addition of the 50 watt RF PA, P/N 81643. With the addition of either a 4PDT switch, or a couple of small relays, you can switch the PA in & out of the circuit. Without having a Scout here in front of me, here's what the diagram indicates:

In the Scout, the low-level RF is routed from the LL DRIVER board (81645) at connector 55. It goes to the RF PA (81643) at connector 55. The output of the RF PA, at connector 61, is then routed to the LOW PASS FILTER PLUG-IN. In addition, the +13 volts for the RF PA and the DC line

for the base bias are routed from the LL DRIVER board to the RF PA board.

To switch the PA in & out, the switch or relays would break the lines from connector 55 and connector 61 and route the power from the LL DRIVER board directly to the LOW PASS FILTER PLUG-IN, and another pole would disconnect the +13 and the T line to the PA. This would provide 5 watts out instead of the 50 watts out, and would also disconnect the DC to the amp thus cutting 300 ma of standby current.

It is VERY important to disconnect BOTH the +13 and the T lines!!! If you have biad on the PA, without the Vcc on the collectors, the transistors will suffer, probably even letting the smoke out!!! I had this happen accidentally in a VHF radio when the clooector choke opened, and it smoked the PA in no time, to the tune of \$35 for the transistor alone...

You could, for a FD operation, just unplug the PA module and re-route the cable from connector 61 to connector 55. Later on, you could restore the rig to QRO by reconnecting per Figure 3-23...

NOTE: The power meter will read low on the Scout, and the SWR bridge won't be accurate. You might have to play with the ALC level, but I would have to try the conversion to verify this. Any volunteers out there with a Scout that needs to be QRP'd ???

Drop me a line with your results.

72/73, Keith, WB2VUO, QRP-L #582, scQRP 40, Tech Specialist (ARRL/WNY),
ARRL Life Member, VP/BARK, Beacon Chaircritter, Rochester VHF Group
Trustee, KB2YTW/B 10 Mtr QRPp Beacon (250 mW @ 28.2870 MHz)
"In the Depths of the Great Bergen (NY) Swamp...FN13ac"
Packet - wb2vuo@w2im.#wny.ny.usa.noam
Email - wb2vuo@juno.com

From owner-qrp-l@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: "Brian K. Short KE7GH" <ke7gh@primenet.com>
Subject: [13318] QSL.Net
Message-ID: <3.0.32.19970228184454.006c1818@mailhost.primenet.com>

QSL.Net is an Internet Services Provider (ISP) run by a ham as a hobby. I am unaware of dial-up numbers, but a FREE web page and FTP space are available to hams for the asking. Also, you can get an email address UrCall@QSL.Net which forwards to your usual email mailbox.

Check out my web page to see what can be done: <http://www.qsl.net/ke7gh>

Contact k3tkj@qsl.net to arrange for your *FREE* internet services.

73, Brian ke7gh@QSL.Net

At 09:43 AM 2/28/97 -0800, you wrote:

>Unrelated reply: what is QSL.NET? It has an intriguing ring? Has someone
>finally begun an Internet QSL concept?

>

>Grant K7GT k7gt@llnl.gov

From owner-qrp-l@Lehigh.EDU Fri Feb 28 18:07:17 1997

From: nf0r@slacc.com

Subject: [13300] QST de Abilene, TX

Message-ID: <9702280701.D1671cP@slacc.com>

Howdy!

I just worked a fledgling QRPer in Abilene, TX who wants to know a lot more about our aspect of the hobby.

He has been on the air a couple of years and now looking into homebrew. Looking for advice on a first kit and maybe a little handholding before/after he takes up the iron.

He's not on the QRP-List yet. If you can help out please e-mail me for particulars.

Many thanks in advance.

de Dave, NF0R nf0r@slacc.co

From owner-qrp-l@Lehigh.EDU Fri Feb 28 18:07:17 1997

From: ka7you@juno.com

Subject: [13326] Question re: small cap applications

Message-ID: <19970228.125232.12383.3.KA7YOU@juno.com>

I am getting very confused lately about what types of small caps are used for what applications. My background is limited in this area, and what I do know is mostly info on the older types.

I see listings for Tantalum, Silve Mica, Mylar, Ceramic Disc and Monolythic small value caps regularly.

Quoting from the JDR Microdevices catalog (a catalog with a computer orientation, some test gear, small kits and lots of literature listed, but also a lot of discrete parts and some very handy Tech Tips scattered throughout):

Tantalum-Polarized; for DC applications; for decoupling high speed circuits

Silver Mica-Non polarized...for use in RF circuits

Mylar-Ideal for bypass and coupling in DC circuits

Monolythic-High reliability and resistance to damp heat (?)

Ceramic Disc-High stability and low losses over a wide frequency range

Is this basically the concept, or is there a lot more than this?

From the catalog pictures, I can tell the different types that I see on circuit boards, with the exception of the Disc Ceramic and Monolythic types. Are these critical to get identified properly when scavenging parts for later use? I have a good capacitor checker(a B&K that eats batteries), so I can check the values easily, but If I have selected the wrong type I suspect that I may be compromising the circuit design.

I'm not interested in a long mathematical dissertation, but just a reference or two to look up for some basic background info on the reasons for choosing a specific style.

I'm not affiliated with JDR Microdevices in any way, etc. Just a happy camper.

They are located at <http://www.jdr.com> and the phone number is 1-800-538-5000.

There is no minimum order, and I've never had an order take longer than four days to arrive.

7 3,

Rod Johnson KA7YOU CN97AK near Issaquah, Wa. 160M thru 1296 MHz
NWQRP#120 ARCI#7251
QRP-L#844

From owner-qrp-l@Lehigh.EDU Fri Feb 28 18:07:17 1997

From: Steve/N0TU <N0TU@webaccess.net>

Subject: [13304] Reviving a Flat-Dead Nicad ???

Message-ID: <3316E979.428F@webaccess.net>

Can it be done?? I found a couple of 2.5AH nicads in the junkbox and wondering if they can be returned to useful service?? I measured 0 vdc across them...is this bad news? They were used in a portable VCR/camcorder. Anyway of zapping these dudes back to life.....Help?? Steve

"Just doing it" - Haven'a blast buildin'& usin' QRP gear that is...
N0TU/hw8/49er/ExplorerII/38s/solar/backpack-mobile... QRP-L # 911

My homepage - <http://www.webaccess.net/~S&P>

ARS# 206 CQC# 394

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997

From: "Dan Tayloe-P26412" <Dan_Tayloe-P26412@email.mot.com>

Subject: [13250] Re[2]: 40w 38 Special? Was: QRO kits and stuff

Message-ID: <M29695462.018.a3zrp.1.970227203833Z.CC-MAIL*/OU=SATCG/OU=AZBH/PRMD=MOT/ADMD=MOT/C=US/@MHS>

I think this idea is neat only because it appears that it **can** be done, not because **I** want to run 40w or more. Curiosity can be a dangerous thing!! (hi!)

I run an invisible antenna because of covenant restrictions. Two things make an antenna truly invisible:

- 1) Construct the antenna so it cannot be seen (#28 gauge enamel wire).
- 2) Run QRP so that no one get interfered with and comes looking for you.

40w probably violates point # 2.

What makes this really neat is that the output network ***does not need to change*** as the voltage is varied, either up or down. Therefore, this is yet another method of making the 38 special variable power: Vary the voltage to the final.

The output network is both a filter and an impedance matching network. Since for a transmitter, $P = V^2/2R$, in order to get 5w at 12v, R must be about 14.4 ohms. This sounds reasonable for the driving impedance for this kind of power level at 12v.

However, keeping the driving impedance the same, but raising the voltage by a factor of 3 gives 9 times the power, ***with no change in the matching network***. The "2R" part remains unchanged.

My understanding is that the cores used are good to about 50w, so every does indeed seem to start to peak out at close to the 40w level.

I agree totally with what you say concerning getting close to the breakdown limit of things here. The normal rule of thumb with RF transistor is a breakdown voltage at least two times the supply voltage.

At 24v (20w), there is quite a bit of margin. If you ran at 35v (40w), you have only **some** margin, when using a 100v IRF510. In such cases it may be good to tune the antenna at a lower supply voltage,

cranking it back up only after tune up is finished.

When running at 35v, a 100v IRF510 is a better selection than an 80v IRF511. However, my understanding is that at least for the Motorola part, the IRF510 and 511 are made the *same*, and just *tested* to different specification. Your IRF511 is most likely a 100v IRF510.

I notice that the IRF511/510 is specified only to 20w dissipation. 24v (20w) to 30v (30w) may really be more appropriate for actual QRO use.

As an experiment, I will try this trick on my 40m, not quite complete 38 special this weekend.

Now remember, this topic is for *experimentation* and *discussion* only, and not to be reduced to common practice by true QRPers! :-)

Poor Ori that he is worried that he may have also unleashed a cheap *QRO* monster! (hi!)

- Dan Tayloe, N7VE, Phoenix, Az, QRPL # 696, Az ScQRPions

>Hi Dan,

>> To increase my power, I would run my rig at 24v. Since
>>power is V^2/R , doubling the voltage should have increased
>>my power output by a factor of 4, and I was able to get about
>>6 3/4 w.

>Going to 24 volts will definatly let you get more power and better
>efficiency. Most likely adjusting the turns ratio on the output coil will
>help give more power. How much power you get is dependant on more than just the
>supply voltage. The drive level and output matching have alot to
>do with it.

>> The 100v rating of the IRF510 (or the 80v rating of the IRF511)
>>gives plenty of margin for this kind of operation.

>>

>> The end result of all of this is that with proper heat sinking,
>>it is likely that a 38 special "as is" may be capable of putting out
>>15 to 20+ watts just by going to 24v.

>>

>> In fact, at 35v (the limit of the 8v regulator), a 38 special

>>could perhaps put out 42 watts!!!! How many 40w QRO rigs do you know
>>of for \$25!
>

>Well, maybe, but I don't think so. That would be pushing that part
>pretty hard and have little margin for SWR problems. Remember that
>the voltage on the source can peak up to about twice the supply voltage
>and add in any SWR that might work it's way back and you can exceed that
>80 volt limit pretty easially. But I think 10 or 15 watts would not
>be too hard to come by, given some tweeking.

>> Just another idea for a *very* cheap QRO/QRP rig. Who needs
>>another amplifier?

>Very true Dan, and like I said, 5 watts is great, but a few more can
>often help. No need to get too carried away though. For me QRO is 20
>Watts tops.

>73, Steve KD1JV

From owner-qrp-l@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: mdwatt@usit.net (Marty Watt)
Subject: [13263] Safari-4
Message-ID: <331620d4.63504751@smtp.usit.net>

Back in 1990, QEX featured a four-band transceiver called the
Safari-4, designed by N6KR. It had a built in key and keyer, SWR
bridge and tuner, 12V gel cell with trickle charger, and several
other features.

Did anything ever come of this rig? I haven't heard anything about
it for a while, and it looked very promising ...

72 es 73 de=20
Marty, KM7W

Jackson, Tennessee e-mail: mdwatt@usit.net
<http://www.public.usit.net/mdwatt>
"The Curmudgeon's Corner"
NorCal - QRP ARCI #7514 - QRP-L #953 - AK/QRP #098 - Grid Sq EM55oq

From owner-qrp-l@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: Russ Carpenter <russ@natworld.com>
Subject: [13306] Second Reminder for the MARCH SPARTAN SPRINT
Message-ID: <14354195300429@spersaoaxaca.com.mx>

The March Spartan Sprint will be held on March 3 (which is our standard date--the first Monday of the month).

If you are a newcomer to the Sprints, take a look at the introductory material at the end of this post.

1. Start at 9:00 PM EST, 8:00 CST, 7:00 MST and 6:00 PST.
Finish at 11:00 PM EST, 10:00 CST, 9:00 MST and 8:00 PST.
2. The frequencies will be 7040+- kHz and 3560+- kHz. (You may operate one or two bands--your choice.)
3. Exchange RST, SPC (state, province or country) and power output.
4. If you choose to call CQ, use the format "CQ SP".
5. If you are operating under the portable QRP rules, add "/PQ" to your call. (You can find those rules at our web site, <http://www.natworld.com/ars>.)
6. You can take credit for working the same station on a second band.
7. To spice things up, we'll give you double credit for every contact on 80 meters.

After the contest send Russ Carpenter, AA7QU, an e-mail with your total QSOs and the total weight of your station (i.e., the combined weight of the transmitter, receiver, key, keyer and battery). You may also include your comments from the soapbox. If you get that information submitted by Tuesday night it will be included in the contest results, which will be published on Thursday on the ARS web site and the QRP-L. Russ' email address is russ@natworld.com.

As an alternative, you can use our new automated Spartan Sprint report at the ARS web site. Just fill in a few boxes, click the "submit" button, and you're done! You can get directly to the report page with this URL: http://www.natworld.com/ars/events/spartan/submit_spartan.html. Or you can take a more leisurely (and rewarding) stroll through the ARS site by going to the home page at <http://www.natworld.com/ars>.

The Spartan Sprint is based on a simple but stimulating concept. We are

encouraging all of you to cobble together the kind of station you'd use in a portable environment--lightweight transceiver, keyer, key, antenna tuner and battery. Then put that turkey on the air, and participate in a two hour sprint.

All operators are invited to play, whether or not they are members of Adventure Radio Society. Even if you don't have lightweight equipment, your participation will be rewarding, both for you and the other participants. We'll report the score in two different formats--absolute scores, and points per pound of station weight. So you can get your kicks

from running up a magnificent score, or achieving an remarkable ratio of points per pound.

ARS provides handsome certificates to the operators who achieve the top two scores in points, and points per pound.

You can get a full explanation the Spartan Sprints from our web site, <http://www.natworld.com/ars>.

If you're thinking about becoming a member of Adventure Radio Society, just send Richard Fisher, KI6SN, (our membership chairman) an e-mail expressing your interest. Richard's e-mail address is KI6SN@aol.com. Membership is free, and the organization has a great group of men and women who combine their love of ham radio with their affection for the outdoors. You don't need to be a macho person; ARS welcomes people of all ages and levels of ability.

72, Russ Carpenter, AA7QU, Contest Manager
russ@natworld.com

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: gsurrency@juno.com
Subject: [13292] Spread-Spectrum and bad CW sigs
Message-ID: <19970227.225552.3286.6.gsurrency@juno.com>

Laura mentioned spread-spectrum in her post. How about this?

Wonder how many of you heard Paul Harvey's program last week that credited the patent for spread-spectrum to the actress Hedi Lamar? Not sure if I got her name spelled correctly, but the story was she was working with some kind of player piano development, and had the idea for radio and got a patent. This was just prior to WWII. Amazing!

On another topic:

Concerning the chirp, clicks, and drifting signals that Carl, KM1H complained about on the ham-tech list:

I haven't noticed very many poor signals, but I do know of a couple of "guilty" parties are either working on their rig problems, or have already corrected them. As QRPers, we have a duty to strive for nothing less than excellence on the air. Anybody can buy a commercial rig and put it on the air, but could they fix, build, or troubleshoot it if it broke? QRPers are a different breed of ham, I think.

Maybe a QRP OO (Official Observer) is lurking on this list? eh? (Gotta be careful with that, and not make one acronym outta it!) ;-)

Perhaps a little constructive criticism when giving out signal reports is in order. There may be too many "polite" hams on here for our own good. I for one, would want to know of any shortcomings on my signal, as so should all QRPers. Most of these problems can be resolved with just a little effort, and it could be time to be a little more critical when giving out signal reports. Sometimes the guy with the faulty signal just doesn't know! It could be as simple as a bad power supply or low battery or poor ground.

We don't need to be branded with a poor rating when it comes to our signals. Puny as our power levels may be, there's no reason to have a "bad" signal. Everybody here has probably had to do some work on one rig or another at some time to fix chirps, hum, drift, etc.

On the other hand, don't be remiss when you DO hear a really nice signal, fist, keyer, etc. A nice compliment should be as readily given out as one for a bad signal. When I worked Chuck, K5FO a couple of weeks ago just after he had finished building his TenTec 40m QRP rig, I made sure to tell him how good it sounded. (And it did!)

Once in a while you hear that "perfect" signal that has the tonal quality of a crystal-based rig, with the proper rise / fall times on the CW envelope, and no drift. To me, those signals that are of the highest quality, exhibit a "bell" sounding note and are really nice to copy. You know the kind of sound I'm talking about.. Make a positive comment about it.

Carl's comment was on another list that I also happen to receive, but his comments suggest a potential call-to-arms. I don't think it is very prevalent, tho'. Can't remember a single bad signal during FYB0, and look at what the conditions were!

Thanks for the bandwidth. Soapbox is closed :-)

vy 72,

Gary
AB7MY
Chandler, AZ
qrp-l #571

From owner-qrp-l@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: martin38945@juno.com
Subject: [13253] Thanks for FOX HUNT info
Message-ID: <19970227.165226.7183.0.martin38945@juno.com>

Dear Friends,

Thanks to all for the info. Guess I just got in a little too late. But I will still give it a whirl to help the Foxes garner points.

What a marvelous job Jack did last night!

vy 73,

Martin W9XN QRP-L #998

From owner-qrp-l@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: "Brian K. Shiratsuki" <bks@bks.com>
Subject: [13289] the heathkit virtual museum
Message-ID: <3.0.32.19970227214345.00953bd0@bks.com>

the ham part of museum is at <http://www.cyberventure.com/heathkit/hkham.html> and includes the dx-60 phone and cw transmitter, which used to drive my answering machine nuts, and the hg-10 vfo, which used to chirp at people.

brian
n6sxt

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: Vic Rosenthal <rakefet@rakefet.com>
Subject: [13346] TICK keyer with relay?
Message-ID: <33176B2E.1FD6@rakefet.com>

Just got my TICK keyer kit, and I'm about to put it together. I want to have it key a reed relay so that I can use it to key my slightly boatanchorish TS830s, which has about 65v on the key line (!). RS has 5v and 12v reed relays - can I operate a 5v relay directly from the TICK chip, or should I use the output transistor in series with the relay, a resistor and the supply? Anybody done this yet?

Vic K2VCO (who will continue using his bug mostly but thinks the TICK is neat!)

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: "Brian K. Short KE7GH" <ke7gh@primenet.com>
Subject: [13314] Trade KPC-9612 for QRP Rig?
Message-ID: <3.0.32.19970228172723.006c3050@mailhost.primenet.com>

I have a KPC-9612 packet TNC in box with manual and cables surplus to my needs and would be willing to trade for a suitable QRP (CW) rig that covers band(s) other than 30m (I have a 38 Special).

Something suitable for QRP To The Field?

Will trade with cash (either way) and consider all including newer multiband commercial units (QRP+, Scout, etc) which include SSB. Possibly buy with no trade, WILL sell TNC outright.

Prefer 20m/17m/80m/15m since I'm building a 40m SST. Please reply directly with all of your offers for my consideration.

73, Brian ke7gh@qsl.net

Brian ke7gh@primenet.com >or< <http://www.primenet.com/~ke7gh>

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997

From: jim <kw3u@warwick.net>
Subject: [13324] Triplet meter 4sale
Message-ID: <3317800B.1B24@warwick.net>

Hi all, in starting with my spring cleaning and gathering of hamfest items, I have brand new in the box Triplet analog model 630 type 5 meter (with the mirror scale) manual, meter leads, and batteries. This is a beautiful piece of test gear. reasonable offer or trade for?

tnx Jim kw3u

more goodies to follow as shack cleaning continues.

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: GREGOIRE@endor.com
Subject: [13305] Tues. FOX, epilog
Message-ID: <Chameleon.970228092726.GREGOIRE@Gregoire.endor.com>

Hello Gang,

I am very impressed with the high number of folks worked by some of the other fox. When I can run that many Q's in 2 hrs. I will have "Arrived", CW-wise anyway.

These fox inspire me to continue my study of the CW language.

Now a for a few words from the Fox, point of view.

I have some suggestions for those folks trying to work the fox with smaller signals.

First, don't give up.

I called CQ several times with no takers,
and no QRM, a clear shot at the fox.

2, xit just a little, this is especially good in pile ups. When 50 signals are dead on the same frequency, and at such a low volume, it is hard to pick one out.

3. Pay attention and learn to QSY.
I announced a QSY, and gave the freq. change.
Ex. QSY UP 1.

This worked very well to get away from the QRM.
That is until he figured out that the pile up had moved.

As for me, I will learn to use the DSP better.
This made a real difference in fighting the QRM.

I will continue to practice CW. The more I do the better I get. CW came hard to me and I earn my expertise one dit at a time.

The more I do the better I like it.

72

de AA1IK, Ernie Gregoire	Lead by example.
	It is better to pull a string, than to push it.
R.R. 1, Box 221, South Rd. Canaan, NH. 03741	Fists # 2644, N.E.QRP # 202 QRP-L # 95, Fly fisher & tier, Promise Keeper.

E-mail address: gregoire@endor.com

packet address: AA1IK@W1WOK.FN43FE.NH.USA.NA

02/28/97 09:01:13

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: JCoote@aol.com
Subject: [13313] Want Small Straight Key Sources
Message-ID: <970228122151_1114931424@emout17.mail.aol.com>

I am looking for sources for straight keys in the US. I'm interested in small keys to be used with portable HF stations.

Can anyone send a list of key vendors' email addresses and phone numbers?

Thanks

73, Jay
W6CJ

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: Vic Rosenthal <rakefet@rakefet.com>
Subject: [13293] Re: "different" Antennas..
Message-ID: <331678B2.1425@rakefet.com>

Eric Via wrote:

>
> Fine QRP folks,
>
> I once read of some clown making a nice workable antenna
> out of beer cans.
>
> Anyone else heard of such strangeness?

Sure, I helped make such an antenna. Back in the old days, beer cans were made of tinfoil, like food tins are today, and you could solder them together easily. We soldered together groups of 5 cans each, then soldered the groups together to make a 33' length. I forgot to mention, you removed the bottom of the bottom can with a can opener. Then you partially buried a quart-sized beer bottle in the ground, set the open end on it, and guyed it with clothesline. Presto, a 40-meter vertical. Some guys spray-painted them with aluminum paint, but that was optional.

There were lots of jokes about how the emptying phase sometimes preempted the assembly phase, or how the antenna got progressively messier toward the top!

Vic K2VC0

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: Bill Todd <bill@techline.com>
Subject: [13294] Re: "different" Antennas..
Message-ID: <1.5.4.32.19970228061650.0068fdcc@mail.techline.com>

At 11:11 PM 2/27/96 +0900, you wrote:
>Fine QRP folks,
>
> I once read of some clown making a nice workable antenna
>out of beer cans.

The ultimate beverage antenna for 160 meters? hi hi

Bill-N7MFB

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: "KA5T Larry Wise" <lewise@inetport.com>
Subject: [13296] Re: "different" Antennas..
Message-ID: <199702280716.BAA23350@admin.inetport.com>

Lets see....

Back when I started drinking beer, the cans were made of steel (tin) and there were no such things as pop tops... Every time you bought a six pack you got a free opener....

Of course those cans could be soldered together, and they were much sturdier than the aluminun ones of today...I would believe that you could make a 40 meter vertical out of them....

I never did this trick, although I thought about it after I heard about it I guess more than one crew did it... Always heard that you had to have a different crew for preparation than the erection if you wanted to get the job completed... :-)

Did make a two meter coax tank out of a couple of coffee cans soldered together and some brass pipe and an old neutralizing cap....Used it with my Twoer.....:-) That was back in the sixties when I had a Gotham vertical on the roof with a gazillion ground wires running all over....But thats another yarn....

Aren't memories great....

And I guess the Twoer was QRP!!! :-)
Larry

KA5T Larry Wise Georgetown, Texas lewise@inetport.com QRP-L 89 ex K80SG
W6HED W4ZTB

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: JCoote@aol.com
Subject: [13338] Re: "different" Antennas..
Message-ID: <970228170350_178361810@emout03.mail.aol.com>

In a message dated 97-02-28 00:15:14 EST, ericvia@why.net (Eric Via) writes:

>
>Fine QRP folks,
>
> I once read of some clown making a nice workable antenna
>out of beer cans.
>
> Anyone else heard of such strangeness? I was thinking of
>perhaps an aluminum lawn chair on the roof...I mean if I'm
>gonna be challenged and be doing QRP - I may as well make
>it a REAL challenge!
>
> Comments?
>
>72 Eric AD4SS (VK8SK in Australia)
>..and please - don't ever take me TOO seriously okay?

I would use two alike lawn chairs, balanced configuration, fed in the center
with ladderline and a good tuner ;-)

73, Jay
W6CJ

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: tayloe_d@juno.com (Daniel R Tayloe)
Subject: [13350] Re: 24v 38 Special -> 20 watts
Message-ID: <19970228.164830.7719.1.tayloe_d@juno.com>

Hi Steve!

The formula can be worked several ways, which is what makes it so neat!

$R = V \cdot V / (2 \cdot P)$ or

$P = V \cdot V / (2 \cdot R)$ or

$V_{peak} = \sqrt{2 \cdot P \cdot R}$ Same thing!

The point is that the output matching network is presenting a certain
load to the transistor. *If* the transistor is being driven hard enough
(which the 38 special is), the transistor will swing from almost zero to
 $2 \cdot V$ *****at the impedance the output matching network presents to
it****.

If it is not driven hard enough, you will not see the full zero to 2*V voltage swing. But whatever voltage swing occurs will be across the load the matching network presents.

In the 38 special, we see 5 watts out for a 12v supply. Therefore, the matching network is transforming 50 ohms at the antenna port to a load at the transistor of

$$R = V*V / (2*P) = 12*12 / (2*5) = 14.4 \text{ ohms.}$$

Now that the matching network is known to transform 50 ohms at the antenna to 14.4 ohm at the transistor, with 24 volts applied, the power at the transistor is:

$$P = V*V / (2*R) = 24*24 / (2*14.4) = 20\text{w}$$

The matching network of the 38 special will transform this to 50 ohms to produce:

$V \text{ peak} = \text{SQRT}(2*R*P) = \text{SQRT}(2*50*20) = 44.7\text{v peak}$ which is close to the 45v peak that I measured. The net effect of the matching network is to raise the voltage from the 24v at the transistor to 45v (peak) across a 50 ohm load.

Likewise, with 30v at the transistor, $P = 30*30 / (2*14.4) = 31.25\text{w}$, or:

$$\text{SQRT}(2*50*31.25) = 55.9\text{v peak across 50 ohms at the antenna}$$

Again, no matching network change required at all! Just change the voltage to change the power. 12v gives 5w, 24v gives 20w, 30v gives 31.25w.... No changes required (except for a larger heat sink!)

Remember that the current drain goes up also. Double the voltage to 24v, and the current also doubles. Twice the voltage, twice the current, same resistance, gives four times the power (20w). Likewise, 2.5 times the voltage (30v), requires 2.5 times the current as well, giving 6.25 (2.5*2.5) times the power. If 5w requires about 0.7 A, 24v requires 1.4A (20w out), and 30v requires about 1.75 A (31w out).

I would not recommend going over 30v. The IRF510/511 is only rated to a maximum 20w of heat dissipation, given an ideal 25 degree C case temperature. Assuming 60% efficiency, during key down, the transistor would be dissipating right at the maximum rating of 20w of heat dissipation. This is probably ok for cw, since the duty cycle is low. The time averaged heat dissipated will be 10w or less.

I guess you would not want to try to run RTTY on a 38 special at 30v!

Like I said, I have verified 20w operation at 24v and I will try for 30w at 30v later this weekend.

Neat stuff! Neat little toy (hi!) radio!

- Dan Tayloe, N7VE(ex-KK7BD), Phoenix, AZ, QRPL # 696, Az ScQRPions

>One thing though, your formula isn't quite right. It's $V_c(V_c) / 2 P_o$
>to give the impedance of the output transistor. If you crunch the
>numbers with a 13.8 volt Vcc and with 24 Vcc for different output
>power from 5 to 40 watts, then divide those numbers into 50 ohms and
>take the square root to get the actual turns ratio for matching
>impedances, you will find the (normalized) turns ratio varies about 1
>to 4 with 13.8 volts and 1 to 3 with 24 volts, with the higher turns
>ratio needed for the higher power levels.
>

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: kd1jv@juno.com (Steven Weber)
Subject: [13330] Re: 73 - The Magazine
Message-ID: <19970228.161309.4863.5.KD1JV@juno.com>

>Lest we spent too much time getting worked up over 73, remember that
>....DEFINITELY proving that the Apollo moon landings were a complete
hoax.

I can't help but admit I actually bought that book, "NASA Mooned America". I read it and then tore all his arguments to shreds. Sent letters to Wayne and to the author. I was told by the author (and Wayne) that I didn't know what I was talking about and he (Rene') was obviously correct. Wayne still insists that no one has seriously challenged Rene's claims. Well, I think I did a pretty good job.

All I can say is that book is a work of contrived BS, faulty reasoning, scientific sounding gobbly gook and a healthy imagination. (and gives the CIA much more credit then they deserve. If you like grand conspiracy theories, this is a good one) But I have a nice signed copy of the book and some correspondence with author, calling me a crack pot!

Oh, by the way, Rene' also claims the Hubble telescope is a hoax, not that it doesn't exist, just that it can't see into outer space and the pictures it takes are fakes...it's real purpose is to spy on us! The

astronomers in our group might think otherwise..

I lost a lot of respect for Wayne over that. Believing in that kind of drivel and that UFO's are from outer space, makes me feel Wayne has gone over the deep end. Too bad, as I generally agree with a lot of his other stuff...

Sorry for the bandwidth, as this has nothing to do with anything...just an interesting diversion and observation. And learned it's a total waste of time arguing with these guys...(my minds made up, don't bother me with true facts)

de Steve, KD1JV

From owner-qrp-l@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: Monte Stark <ku7y@sage.dri.edu>
Subject: [13336] Re: 73 - The Magazine
Message-ID: <Pine.SUN.3.90.970228134858.7390A-100000@vortex.sage.dri.edu>

On Fri, 28 Feb 1997, Steven Weber wrote:

> All I can say is that book is a work of contrived BS, faulty reasoning,
> scientific sounding gobbly gook and a healthy imagination.

Are you sure your not talking about Global Warming???

> I lost a lot of respect for Wayne over that. Believing in that kind of
> drivel and that UFO's are from outer space, makes me feel Wayne has gone
> over the deep end.

I always thought the guy was over the edge long before he got to 73!

Not quite QRP, but is there anyone here that knows the post war history of amateur licensing here in the USA? Classes, freq's and etc?

Thanks, cu1,

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: "Mike Siegel" <ki6pr@msn.com>
Subject: [13339] RE: 73 Magazines' Anti-CW Article
Message-ID: <UPMAIL05.199702281741080846@msn.com>

Before you folks start getting all spun up again over a magazine article, let me save you the cost of having to buy a copy of "Wayne's World", and explain a little history.

Weenie Greenie has been an anti-CW advocate for YEARS. He used to regularly carry sidebar articles in his mag about some guy going over the edge and shooting up his boss' office, or some Extra-class ham, busted for some heinous on-air behavior; he would then attempt to explain it all away as results of the 20-wpm requirements for Extra. There was much less humor in his comments than he wanted folks to think.

Weenie has also blamed what he perceived as the failure of the American electronics industry, on the ARRL's forcing the FCC to retain CW requirements for licensing purposes. His logic was that the CW requirements kept all the creative people from getting into electronics, and thus, killed the industry in this country. Logical, no?

And let's not forget his good buddy Bill Pasternak, a long-time no-code advocate; Bill brags about how he was in that loft, helping to staple together the first issue of "73". The last time I looked, Bill is still only Tech-licensed; I often wonder if he ever did get tested for CW as a Novice (they did that back in those days)? Just so you understand that Mr. Green has a habit of surrounding himself with people that think exactly the same way as he does.

So when you see anti-CW articles in "73", it shouldn't be any surprise at all, to anyone.

BTW, is the article anti-ARRL? Wayne doesn't think so. In fact, I've got a picture somewhere, of Wayne, grinning like an idiot, holding a 50-year membership plaque from the ARRL (are you reading this, Doug?). Wayne thinks he's helping things along...

72/3 to all,
Mike KI6PR
El Rancho R.F., CA

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: Ed Tanton <n4xy@avana.net>

Subject: [13295] Re: Anti CW Article in "73"

Message-ID: <3.0.1.32.19970228020319.009adb90@tiger.avana.net>

Hi Marshall... unfortunately '73' has deteriorated steadily-to the point where I expect its publication is not long for this world. I have always either laughed or been disturbed by Wayne's various diatribes and wacky causes, but in the past few years have begun to doubt ... well... his personal ...uh-h-h... credibility. Any publication usually reflects the actions and attitudes of its publisher... as well as his ...uh-h-h... credibility. Combine that with the late non-ham editor, his long-time feud with the ARRL, and it is not surprising to hear about the article.

Wayne is always going on about the need for new hams, and the need for reaching out to the third-world/etc. Somehow I do not think the big ham manufacturers are greatly concerned about the simpler aspects of amateur radio, but rather their bottom lines. I suspect they make a bit more on an IC-781 or FT-1000 than our QRP-L manufacturers. While the single band Green Mountain rigs do operate SSB-proving it CAN be done without spending thousands of \$\$\$-most of the interest on QRP-L is in small, simple, and inexpensive rigs. Perfect to provide inexpensive communicability in the field-third world field or not-but not really suited for PACTOR/etc.

With todays emphasis on 'greener' use of materials, power, and radiation, Wayne can not only NOT see the trees, but is missing the entire new growth in the forest as well. His prejudices, his feuds, and his inattention to where so much of the REAL activity is in amateur radio have already cost him the bulk of his readership, and articles like this one only emphasize all the negatives he has come to represent to me-and probably most others on this reflector and elsewhere.

72/73

Ed Tanton N4XY EMAIL: n4xy@avana.net TEL: (770)579-3933 V/MBX/FAX
189 Pioneer Trail
Marietta, GA 30068-3466

QRP-ARCI#7663 G-QRP#6779 OK-QRP#172 QRP-L#758 AdvRC#140
NORCAL#1779 NCDXF SEDXC

Life Member: ARRL AMSAT IDRA INDEXA QCWA
URL: Coming Sooner or Later

"Think you can, think you can't: either way you're right!" Henry Ford

From owner-qrp-l@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: "Dana H. Myers" <myers@bigboy.West.Sun.COM>
Subject: [13310] Re: Anti CW Article in "73"

Message-ID: <Roam.3.0.1.857144477.16819.myers@bigboy>

Marshall AA0XI wrote:

> The March issue of "73" has a long and vitriolic article framed as a
> critique of the ARRL survey. It's interesting reading, and I hope a
> number of you will write to "73" after reading the article. The article
> is by Alex Haynes, AC5HU, and begins on page 35.
>
> There have been a lot of very good articles in "73" lately, and, Wayne
> Green's politics notwithstanding, it is a major disappointment to see
> the headline "ARRL Code Survey Exposed" on the cover.
>
> Alex claims that the survey was "cooked," and to presents a number of
> arguments in a logical fashion, going into great detail about the
> wording of the survey questions. Unfortunately, he accepts as fact an
> awful lot of distortions and misrepresentations which should not go
> unanswered. I can't find him on my QRZ database, so presume he's one of
> the recent crop of "no code Extras" who somehow earned our highest
> qualification without any skill or experience.

With all respect Marshall, I'm very disappointed at the immediate tendency to start attacking the credentials of Alex Haynes. A look at the FCC database indicates his current callsign was issued 5/9/96, and his previous call is WB3HXY. His birthdate is in 1935. I believe it would be safe to assume Alex has been a licensed amateur for at least a few years, perhaps longer than yourself.

If you disagree with him, that's fine. If you think you can invalidate his arguments by discrediting him, that's not very productive and really doesn't have any part of this discussion IMHO.

take care!

Dana

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997

From: Ed Tanton <n4xy@avana.net>

Subject: [13315] Re: Anti CW Article in "73"

Message-ID: <3.0.1.32.19970228124441.009d6100@tiger.avana.net>

Hi Dana... in Marshall's defense I would suggest that he did not particularly attack the author personally, but was primarily reputing that author's methods, presumptions, and unfounded implications. Marshall DID suggest the author might be a newcomer/nocode/etc. which was apparently incorrect-but that was not the thrust of his argument, and should not be the issue of concern about the article in general.

72/73

Ed Tanton N4XY EMAIL: n4xy@avana.net TEL: (770)579-3933 V/MBX/FAX
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"Think you can, think you can't: either way you're right!" Henry Ford

From owner-qrp-l@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: Vic Rosenthal <rakefet@rakefet.com>
Subject: [13317] Re: Anti CW Article in "73"
Message-ID: <3317255E.7E2A@rakefet.com>

Something that's been bothering me for a long time: CW is under attack. Especially on the net, I've heard so many really angry, hateful words spoken about the thing that's given me so much joy, relaxation, and escape from the daily grind for more than 40 years.

I know I'm preaching to (many) of the converted here, but ---- DAMMIT! Aren't there enough 'channels' for people to chat on SSB and FM? Maybe clean up some of the garbage, broadcasting, drunks, etc. and there would be even more room.

I belong to the ARRL and to QCWA primarily because these organizations seem to support CW. I'm really worried that in my lifetime I'm going to see some serious reduction in spectrum available for CW - heck, I'm already seeing it: we are sharing most of the available bands with more and more digital stuff every day, not to mention illegal SSB (and legal SSB from outside of the US).

I don't know what to do except support those groups that support CW, and encourage its use -as we QRP'ers are doing- as much as possible. As far as ol' Wayne is concerned, forget it. He's lost it. Just don't buy the magazine.

Well, as someone previously said, time to go comb my beard, cash my social security check and fart.

Vic K2VCO

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: "Marshall G. Emm" <mgemm@mtechnologies.com>
Subject: [13325] Re: Anti CW Article in "73"
Message-ID: <33172CAC.4CED@mtechnologies.com>

Hi, Dana--

--If you disagree with him, that's fine. If you think you can invalidate his arguments by discrediting him, that's not very productive and really doesn't have any part of this discussion IMHO. --

You're right, of course, and I appologize for jumping to an unjustifiable conclusion. No doubt I was already inflamed by the crap in "QST" and over-reacted. In fact, I need to thank you for pointing it out and causing me to go back and re-read the message. I remember a boss once who responded to a direct quote in the minutes of a meeting by saying "I feel that I wouldn't have put it quite so strongly." [g]

I try very hard to be fair, and I certainly wasn't deliberately trying to discredit his arguments by discrediting him personally. If anything I was trying to deduce what sort of person would hold those views, but even that shouldn't have slipped into my message.

mea culpa

73
Marshall
AA0XI

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: Dan Hogan <dhhogan@lightside.com>
Subject: [13340] Re: Anti CW Article in "73"
Message-ID: <3.0.16.19970228123048.1d67d808@mail.lightside.com>

Question:

Why the sudden paranoia over non/anti QRP statements? We are here, and QRP is growing. You get anti-whatever when others start feeling threatened by you.

So lets ignore "them" and get on with QRP.

I am waiting for the SST.

Dan Hogan
West Covina, CA
dhhogan@lightside.com

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: myers@bigboy73.West.Sun.COM (Dana Myers)
Subject: [13345] Re: Anti CW Article in "73"
Message-ID: <199702282328.PAA01564@sunspot.West.Sun.COM>

Marshall wrote:

> --If you disagree with him, that's fine. If you think you can invalidate his arguments by discrediting him, that's not very productive and really doesn't have any part of this discussion IMHO. --

>

> You're right, of course, and I appologize for jumping to an
> unjustifiable conclusion. No doubt I was already inflamed by the crap
> in "QST" and over-reacted. In fact, I need to thank you for pointing it
> out and causing me to go back and re-read the message. I remember a
> boss once who responded to a direct quote in the minutes of a meeting by
> saying "I feel that I wouldn't have put it quite so strongly." [g]

Heh heh. I know I do it all the time - get focused on one particular topic, furiously ponder it, even write up one or two notes, and forget really what was important in the first place. ;-) Lately I've become just a little more sensitive to the "credibility attacks", which is why I commented this time.

;-)

Dana K6JQ
Dana@Source.Net

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: lhalliday@creo.bc.ca (laura halliday)
Subject: [13255] Re: AT&T Wireless Phone System
Message-ID: <199702272154.NAA13634@BC.net>

Gulp. If this is indeed 10 GHz and not 10 MHz, it sounds like we have another band in trouble. The U.K. has just lost most of 10 GHz to wireless telephone stuff... :-(

I'm curious about the technology AT&T are patenting. Microwave frequency re-use is a little too obvious to patent, and spread spectrum was patented in the 1940s. The intent was jam-proof remote control for torpedoes and things.

Techno trivia: the names on the original patent are George Antheil and Hedy Markey. They used what we would now call frequency hopping spread spectrum, with the innards of player pianos to generate hopping data - Mr. Antheil was a concert pianist.

As for Ms Markey - Hollywood couldn't bear her surname, so she used the surname "Lamarr" professionally...

Laura Halliday VE7LDH	"C'est une femme mutine, assez
lhalliday@creo.com	elegante, grave et legere, ayant le
ve7ldh@amsat.org	sens du confort et du plaisir
Locator: CN89mg	en tout." - C. Deneuve

From owner-qrp-l@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: Brad Mugleston <bmug@gw1.com>
Subject: [13329] RE: Brad's Fox Report
Message-ID: <01BC257C.0544D220@pps-pc10.gw1.com>

I'll try this ASAP. My big problem the other night wasn't really noise (I think the filter between my ears is getting better) but the actual signal is very light and difficult to hear at all. Any ideas on how to test for this?

Brad

From: Bob Tellefsen-CNSE97[SMTP:Bob_Tellefsen-CNSE97@email.mot.com]
Sent: Thursday, February 27, 1997 8:39 AM
Subject: Brad's Fox Report

Yes, Brad. It is very common, and frustrating, to find people hear you better than you hear them. That is the norm for me.

My theory is that everyone lives in a lower noise area than I do, so have more signal left above the noise level than at my QTH.

I've done a lot of experimenting with low noise receiving antennas to see if I

can equalize things a bit, and sometimes it does help. And sometimes it doesn't. There are some noises that are just plain killers. If they are short term, you just QRX. If long term, you go build something.

If you ever wonder about whether your receiver is quiet enough, and where all the noise is coming from, there is an old rule of thumb that works nicely at HF.

If you disconnect your antenna from your receiver (or transceiver), and the noise drops, your receiver noise figure is as low as it needs to be. You may still hear residual, set-generated noise, but it will be overwhelmed by the ordinary ambient noise coming in through the antenna.

Anyway, welcome to the club.
72, Bob N6WG

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: Monte Stark <ku7y@sage.dri.edu>
Subject: [13349] Re: BuzNot Noise Blanker
Message-ID: <Pine.SUN.3.90.970228153119.8195A-100000@vortex.sage.dri.edu>

Hi Wayne and All,

Just a quick note to tell how I feel about the BuzNot.

I installed a BuzNot in my 40a. It was easy to build and get hooked up. (The hardest part of the whole thing was drilling another hole in the front panel!)

The first time I really had a chance to give it a good tryout was in Elko last Tue and Wed nights. It worked great!

There is some types of noise that noise blankers don't work on, but on the AC buzz, this works very well. And it didn't seem to "weaken" the AGC. The RX continued to reject loud signals that were close to the one I was copying without pulling the AGC and causing thumping like so many big radio do!

(One of the few bad features of my TS930S is that you can't use the noise blanker if someone is within about 10 khz with a loud sig!)

Another big Atta Boy to Wayne!!

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

From owner-qrp-l@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: "Rick Hadley" <r.hadley@www.mebbs.com>
Subject: [13334] Re: Chirpy drifting QRP signals
Message-ID: <19970228154238.23a0da7a.in@www.mebbs.com>

TMOLL@aol.com wrote:
> To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
> Subject: Chirpy drifting QRP signals
> Date: Friday, February 28, 1997 2:01 PM
>
> What I want to know is how this listener is able to discern what signals
on
> the band are qrp or qro (aside from the obviously illegal ones)?

Well, if he's like most of us, he waits to hear "rig is...". ;-)

Being primarily a DX'er (QRP & QRO), I spend probably 10 hours listening for every 10 minutes transmitting, and I think the original author had a valid point. Based on my time spent around 7040 and 10116, I'd be willing to bet that the percentage of QRP signals with a stability problem is above average. It's good for all of us to be reminded that there are qualities that are ultimately more important than low parts count or the ability to fit into an Altoids tin. In the spirit of The Old Man, I'd suggest that we should ALL live in fear of the Wouff Hong for such transgressions. And while I can still see the wraith of HPM, I think I can hear him muttering about some of the, ummm, shall we say "distinctive" fists that accompany some of those same signals. If TOM were still around we'd probably be treated to an editorial on "Code-bonics"!

Rick Hadley, W0FG

Life Member ARRL
QRP-L 1019
NCVA

From owner-qrp-l@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: Monte Stark <ku7y@sage.dri.edu>
Subject: [13337] Re: Chirpy drifting QRP signals
Message-ID: <Pine.SUN.3.90.970228135746.7390C-100000@vortex.sage.dri.edu>

On Fri, 28 Feb 1997, Rick Hadley wrote:

> the wraith of HPM, I think I can hear him muttering
> about some of the, ummm, shall we say "distinctive" fists that accompany
> some of those same signals.

I think much of his wrath would be directed at those of use who have
either lost or never had, the ability to copy hand sent code! In this
day and age of keyers and keyboards, we are losing the ART of cw! :-(

cul,

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

From owner-qrp-l@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: "Carol N. Wright" <cnw@HiWAAY.net>
Subject: [13261] Re: CW Adjustment w/TS140S
Message-ID: <Pine.OSF.3.94.970227173614.5426A-100000@fly.HiWAAY.net>

Hey Tom and Gang,

I have a Yaesu FT-840, is that possible with using a 9 volt battery
and a pot to the ALC for lower output power? It would be nice to get
down to about 2 watts or less. I would also like to know how to hook
everything up. Thanks all. Best 72 DE Matt, AE4JM

From owner-qrp-l@Lehigh.EDU Fri Feb 28 18:07:17 1997

From: WD6BOR@aol.com
Subject: [13259] Re: Debugger #2: T - 0 and counting
Message-ID: <970227182702_850982709@emout05.mail.aol.com>

Mike,

I didn't realize you were an accomplished screenwriter and director as well. In addition to being one of the list's premier debugger gurus. Good luck. With the look of terror depicted on your face, I get the impression you might need it.

Hope to see you Sunday if you can tear yourself away from the Radiokit. You've cancelled all appointments and called in sick for a week haven't you?

Darrel, WD6BOR

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: "Michael A. Gipe" <mgipe@reliablemeters.com>
Subject: [13343] Re: dit dit or dah dah ???
Message-ID: <199702282301.RAA31691@multi13.netcomi.com>

Jim --

There are some whose personal preference is opposite to the norm, but the traditional way is thumb produces dits for right-handed people. This comes from the way that bugs are made.

Of course, there are always exceptions:

If you are right-handed and want to use your left hand to key, reversing the paddle connections gets you about 60 dB up the learning curve.

Most lefties use the same connection as a right-handed person, sending dits with their forefinger. However, some don't.

Take a stroll through the QRP-L archives. There has been a lot of discussion on the topic -- more than you would ever want to hear!!.

Hope this helps more than it confuses.

Mike K1MG

>

> OK, another dumb question. I just built my first keyer. (A small \$12

kit

> from Ten-Tec, and homemade key). Nothing in the instructions about which
> side should be dits and which side should be dahs. I wired it as dits
to
> the left and dahs to the right - is this the norm?
> 73 de Jim (AD4KB@aol.com)

From owner-qrp-l@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: martin38945@juno.com
Subject: [13311] Re: FYB0 and the 1-wave Sloper
Message-ID: <19970228.120818.3375.4.martin38945@juno.com>

Dear Keith & Friends,

Just for the sake of discussion on Keith's Sloper...

What do you have when you take a 1 wavelength wire and coax feed it 1/3
wavelength from one end through a 4:1 or, preferably 6:1, transformer...
or maybe even feed it with 300 ohm ribbon?

And how would this mysterious antenna I have just described differ (gain
and pattern) from the 1 wavelength wire directly fed with coax 1/4
wavelength in from one end?

And presuming one uses a metal support, 40 feet high, to hold up one end
of the 1-wave sloper... how would it compare, performance wise, to a 3/4
wave sloper fed against the 40 ft. metal support (maybe a tower)? Would
there be any difference in performance? And if the support is non
conducting... how would the 1-wave sloper compare to an inverted vee with
one 3/4 wavelength leg and one 1/4 wavelength leg apex at 40 ft.

Hint: How does the height above ground of the current node affect the
performance of the antenna?

Now for all of you who are splitting a gut... I'll leave the rest to your
imagination.

vy 73,

Martin W9XN QRP-L #998

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: "Wm&Penny Kresl" <kresl@elknet.net>
Subject: [13283] Re: Greetings from Bulgaria! CALL FOR HELP! READ!
Message-ID: <B00000079962@www.elknet.net>

(I am sending this reply to Harry, LZ1BB. Please READ Harry's letter that I included HERE. This is a CALL FOR HELP!!!!)

It was with a lot of sadness that I read your note, and no amount of my words will comfort your plight. I believe that in the US, we tend to lose touch with the rest of the world even though we have the greatest communications systems in the world. Also, hams don't seem to communicate well past a signal report, QTH and QSL exchange. All for meaningless contest scores and shack wallpaper. QRP is fun, but your note is not about fun.

(List Folks, and potential flamers PLEASE READ HARRY's NOTE.)

I am close to your age (41) and have been a ham for thirty years, and have long given up the chase of paper. Your note struck a chord. We are indeed lucky in this country, and your report from Bulgaria is shocking! Your concern for your wife and family is commendable.

You have posted your note in the most appropriate place because I believe we hams CAN stick together to help you out. I would like to think that WE CAN help other ham's in YOUR AREA. We need to mobilize a massive aid effort to you and your fellow hams to aid this crisis. There are probably other HARRY's in the same crisis you will face soon.

I would like you to provide more info on contacting yourself and any radio clubs in your country in this QRP list so that we can start to do SOMETHING for you and your fellow citizens.

(To USA hams that have mobilized relief/emergency efforts
-WHERE
DO WE START? The ARRL should be made aware of this CRISIS
situation -ASAP).

I am sure a lot of hams missed your original posting, so I will
be
reposting in the list with a call for HELP. Please keep us
posted
on your situation, and try to get Bulgarian hams involved on
your
end so we can target and HELP as many people as possible.

This is an EMERGENCY!
William M. Kresl
WB9BBC
Delavan, Wisconsin USA

P.S. Folks, the urgency with which Harry speaks is evident in
his
letter. I am only one HAM here, we need HUNDREDS more to help
him out. I am not sure of list protocol, or how best to handle
this
plea. If you have UN or CARE connections, we would like to hear
from you.

Also, I have been made aware of recent crisis situations
regarding
USSR Military officers and soldiers committing suicides due to
starvation of them and there families during a harsh winter and
not receiving any military pay for about a year. This story was

published in a recent US NEWS article, and is a major crisis in
Russia. I am not thinking of political parties here, just
families.

LET's HELP!

> From: Harry Popov <popov@sof.omega.bg>
> To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
> Subject: Greetings from Bulgaria!
> Date: Thursday, February 27, 1997 5:39 PM
>
> Hallo fellows QRPers from USA,
> I am Harry from Bulgaria and my call is LZ1BB. I do belong to
G QRP club.
> I was reading the digest for some time. Unfortunately I pay
for every
> kilobyte received. If you are looking the news you should

understand why I

> have to postpone the digest mail. I do this with great regret anyway.

>

> I am 35 years old and have been a ham since 1972, when I was 11. I love QRP

> VHF DXing and home brewing. I am married for Maria and we have two boys.

> Dimiter is 10 and Liubomir is 8 years old.

>

> Instead the diagram of my last project I will give you some figures. Please

> read them and excuse me that I am using the list not for hamming. I'm giving

> them in USD equivalent for better understanding.

>

> The income of the average Bulgarian is 7\$ per month. The average heating

> bill is 4\$. One bread daily is another 5\$. That is already more than the

> income.

>

> The pharmacies are closed. No medicines. The hospitalities are closing down

> because they can not pay their bills. If some body get sick here it is

> better to go...

>

> Today we got the news from the national BC radiostation that since 1st of

> March the price of the electricity will rise up 2.57 times (257%). The

> heating bills will go up more than 200%. That means every price will jump

> too.

>

> My personal situation:

> I am a self employed and my income is much higher than the average

> Bulgarian. I can pay my electricity bill, an apartment rent bill. I can buy

> one bread daily and even some potatoes. That is all. I am working more than

> 12 hours with all my brain and muscles. Any way I am frightened what

> will happen with my children since 1st of March. The prices will jump up and

> the income will be the same. And I am asking my self how long

I will be in
> good shape. I eat once per day and bread and potatoes only.
The rest is for
> the children...
>
> Me and my family are in DISASTER! I wonder how my sons still
have excelent
> marks at school. They are good schoolboys. I am a good
worker. My wife is
> loving mother and wife. But we are hungry.
>
> Which is the worst. The comunism is still alive here. Every
thing in the
> last 7 years seems to be a big theater.
>
> I need your help my dear fellows QRPers. I need your
donations. I need them
> to feed my family first and to live the country. I must
imigrate to survive.
>
> Please every one who can help drop me a line. If you could
not help with as
> little donation as the price of a cup of coffee drop me a
line too. Perhaps
> you could give me some courage and opthimism. I need them
also.
>
> Once more please excuse me that I broke the rules of the
QRP-L.
>
> God bless you!
>
> 72! Harry LZ1BB G-QRP #4210 QRP-L #1025 YL-SSB #14074
>
> e-mail: popov@sof.omega.bg
>
> Net-Tamer V 1.07X; Beta - Registered
>

From owner-qrp-l@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: Roger Hightower <n7kt@dancris.com>
Subject: [13290] Re: Greetings from Bulgaria! CALL FOR HELP! READ!
Message-ID: <331671F8.2990@dancris.com>

Careful here.....this is not a topic for the list.

--

72/73 de Roger N7KT Mesa, AZ Grid DM43cj
NorCal 40-9er, NC38S, NC-40A, Cascade, OHR Explorer 20, 30M, OHR400,
HW-9
NorCal 1099 CoQRP 176 QRP-L 62 G-QRP 9081 ARCI 8946 NE-QRP 383

From owner-qrp-l@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: haf47@juno.com (HOWARD A FRIEDMAN)
Subject: [13321] Re: Kenwood TS-140S
Message-ID: <19970228.142745.2311.0.haf47@juno.com>

Hi Jeremy, usually placing a voltage on the ALC input reduces the power output of the rig. This is the input that you normally connect to a linear amplifier. The linear provides this voltage to the rig to keep itself from being overdriven, and as a result doesn't send signals splattering across the band.

Look at the schematic and it should tell you what ALC voltage range it wants to see. It will probably be from 4 to 7 volts or so. So, if you place 7 volts on this input, your carrier output of the 140 will be greatly reduced.

Most people have used a 9 volt radio battery with a small pot to reduce the voltage to the desired level. It works great and the battery can last for up to 2 years.

I use this method on my rig with 6 volts max, and it limits my output to around 15 watts, which may be too high for your needs. You'll simply have to try it. With this method, some rigs can be folded back to 0 output I'm told.

Anyway, I hope this has been of some help. Be sure to get a copy of the schematic to verify the voltage before you try this. It's a pretty neat way of reducing power as you don't have to go inside the rig to make it happen.

73, Howard

haf47@juno.com
WA2AFD @ WA2UMX.NY
QRP-L # 1008

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: launerb@crl.com (William H. Launer)
Subject: [13328] Re: Lost time (ramblings of an OF) long
Message-ID: <v01530500af3cf428ade8@[192.0.2.1]>

Rod has certainly made some good suggestions for keeping parts for projects organized. I've discovered another handy item for the workbench that doesn't cost anything. I keep a supply of empty pet food cans (the ones about 1 1/2 inches high, and 3 inches in diameter) on the bench. Whenever I am disassembling something for troubleshooting, etc., I put the small parts in an empty can so they don't get lost amidst the rest of the litter on the bench (I know, I should keep the bench neater, but I'll bet most workbenches look similar!). A safety tip: if the cans are the kind that have the "pull-off" lids, you can remove the flanges with an electric can opener.

72/73 Bill wb0cld

Bill Launer
St. Charles, MO
launerb@crl.com
wb0cld@wb0cld.ampr.org [44.46.66.25]
qrp-1 #279 qrp arc1 #3551
Grid Square EM48RT

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: "Carol N. Wright" <cnw@hiwaay.net>
Subject: [13277] Re: Multiband dipole/vee
Message-ID: <Pine.OSF.3.94.970227211559.28629A-1000000@fly.HiWAAAY.net>

Hey Jay and Gang,

You mentioned 450 ohm ladderline in your message to the Gang. I know that a plain jane dipole uses 50 ohm coax and the math for a half wave is 486 divided by frequency and for a quarter wave it is 234 divided by the frequency. What about 450 ohm ladderline? What is the math for it? I am wanting a short antenna for camping and camporees in the Boy Scouts, so I am looking for a short antenna, maybe a quarter or a half wave fed with ladderline for either cut for 30m or 40m, of course to be used with a QRP transceiver, I might even decide to use a coax fed dipole instead, to leave the tuner, or matching device behind. Any ideas? Thanks a lot.

Best 72 DE Matt, AE4JM

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: GREGOIRE@endor.com
Subject: [13301] RE: MY FYBO SUCKED WORSE THAN YOURS?
Message-ID: <Chameleon.970228082632.GREGOIRE@Gregoire.endor.com>

Hello Dennis,

Remind me to never do a field day with you!!;-)

de AA1IK,
Ernie Gregoire

Lead by example.

It is better to pull a string,
than to push it.

R.R. 1, Box 221,
South Rd.
Canaan, NH. 03741

Fists # 2644, N.E.QRP # 202
QRP-L # 95, Fly fisher & tier,
Promise Keeper.

E-mail address: gregoire@endor.com

packet address: AA1IK@W1WOK.FN43FE.NH.USA.NA

02/28/97 08:25:27

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: "Michael A. Gipe" <mgipe@reliablemeters.com>
Subject: [13275] Re: Noise
Message-ID: <199702280237.UAA07673@multi13.netcomi.com>

Also observed here about 40 miles southwest of Bob N6WG.

Mike K1MG

> Gary:
> Interesting that you get the noise between 7036 and 7037 too. I'm up
here in
> the SF Bay area, so unlikely it's a local noise source unless maybe
something
> common all over like cable TV?

> 72, Bob N6WG

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: gsurrency@juno.com
Subject: [13291] Re: Noise
Message-ID: <19970227.225552.3286.7.gsurrency@juno.com>

Bob,

You know, you may have hit the nail on the head! I also get lots of buzzing QRM up and down the 80/75m band. It persists even with all the power to the house turned off, with the rig on battery power.

Sure is annoying.

72 and thanks for the observation / theory,

Gary
AB7MY

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: Joe Gervais <vole@primenet.com>
Subject: [13266] Re: QRP nonsense
Message-ID: <199702280053.RAA07775@usr08.primenet.com>

Carl (KM1H) wrote:

>
> Have you actually listened to the QRP frequencies lately??
> I have never, in over 40 yrs as a ham, heard such poor signals.
[SNIP]
> The QRPers are so deep into cheap that they have lost the concept
> of quality.
> The QRPers are a problem...not a solution IMHO.

Ummm... Carl, with all due respect, where the heck have you been listening? All I hear are good quality sigs from well designed and built commercial gear and kits.

Are you the fellow that used to run a QRP kit company? If so, I'm sure we're all very sorry it didn't work out, but such is life. Now to blame an entire community for the failure of a business venture (while other similar companies

thrive) is a bit twisted. But to accuse that same entire community of inferior operating practices...?

Life's too short to be that bitter. Introspection and humility will make for a much happier existence. And you may well find yourself surrounded by friends, instead of fighting shadows.

Cheers de AB7TT,

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)

From owner-qrp-l@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: "M. Monninger" <markem@primenet.com>
Subject: [13279] Re: QRP nonsense
Message-ID: <3.0.1.32.19970227203029.00946be0@mailhost.primenet.com>

Hey guys...

This turkey obviously has a chip on his shoulder (besides the fact that he can't spell) and is trying to pick a fight. Best thing to do is ignore him and he'll get tired of it.

73... Mark AA7TA

From owner-qrp-l@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: James Parsons <k5rov1@worldnet.att.net>
Subject: [13281] Re: QRP nonsense
Message-ID: <1.5.4.32.19970228035511.006a45ec@204.127.3.1>

At 03:21 AM 2/28/97 +0000, you wrote:

>Hey Jim:

>

>When were you in Japan? I was KA7RF 1965-1968....Itazuke AFB.

>

>73, Bob

>-----

>Bob Follett AB7ST, QRP-L # 129, NorCal, ARCI, 10-10, ARS
>2861 Estates Dr. VOICE: 801.649.6457
>Park City, UT 84060 E-mail: bfollett@ditell.com

>

>

Hi, Bob...

Yeah, but way before you. I was stationed at Tachikawa and lived at Yokota between 1952 and 1954. I retired from the USAF in 1971.

While there, my transmitter was a Wilcox 96D, running a pair of 450TL's with 7000 volts on the plate (I won't discuss the power). The antenna was a rhombic, three wire stacked, 90 feet in the air. In those days we could run phone patches, and that was the only way most of the guys (and gals) could afford to talk home. Long distance phone calls were expensive, and difficult.

I used to send CW traffic to a feller in Seattle, and he was so good that he would accept ten messages at a time before I would turn it over to him for a QSL. He seldom asked for a repeat. I was using a bug. I usually sent about 100 messages per day. We didn't have recorders then, and he was copying on a "mill".

Phone was A.M., and the modulator was also a pair of 450TL's. My call was KA2FC. In my apartment I had a National HRO receiver and a Johnson Viking II. My amplifier was a home brew 304TH, if memory serves me. It required 21 amps on the filament. My call there was KA2JP.

NOW YOU KNOW WHY I ENJOY QRP!!! (Yes, I am shouting!)

73

Jim, K5ROV

EX: KA2FC (JAPAN), KA2JP (JAPAN), SV0WN (CRETE), SV0WN (RHODES),
DL4NC, W1RLA, K4FEO, K5FBB

From owner-qrp-l@Lehigh.EDU Fri Feb 28 18:07:17 1997

From: john andrews <jm165723@eee.org>

Subject: [13342] Re: QRP nonsense

Message-ID: <33176174.29A6@eee.org>

> >Reply-To: km1h@juno.com

> >The QRPers are so deep into cheap that they have lost the concept of
> >quality.

Gee...I Dunno, James....But it makes one wonder where this source
of "cheap" is generated.

72, John- N5INZ

From owner-qrp-l@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: Sandy W5TVW <ebjr@worldnet.att.net>
Subject: [13249] Re: some basic instrumentation to build?
Message-ID: <19970227195250.AAA27436@LOCALNAME>

At 01:33 PM 2/27/97 +0000, you wrote:

>Kind folks of the QRP-L,

>

>I have been scouring the used equipment catalogs, and have found that

>used equipment is out of reach at the moment. I do need some basic

>instruments, such as:

>

> 1. phase meter,

For what frequency range?

> 2. capacitance/inductance meter

For what range! If for "RF" the Autek RF Analyst is VERY handy and accurate!

For AF then the General Radio 650 Impedance Bridge is handy and they are not expensive (\$100 at hamfests),

> 3. spectrum analyzer (working on this already)

>

Are you aware of the poor man's spectrum analyzer and tracking oscillator available from some guy who comes to Dayton every year. It uses specially built

PCB's and TV tuner modules. Works quite well and is an oscilloscope "add on"

Someone here may recall who the guy was. I can't remember at present!

>Do you know of some reference works (magazines, newsletters, books)

>which might describe these instruments and provide construction details?

>

E. V. Sandy Blaize, W5TVW

"Boat Anchors collected, restored, repaired, traded and used!"

417 Ridgewood Drive,

Metairie, LA., 70001

ebjr@worldnet.att.net

Looking for: 860 tubes, WL-460 tubes, RK-18,20,28 tubes

Butternut HF2V antenna, G-R test gear.....*

From owner-qrp-l@Lehigh.EDU Fri Feb 28 18:07:17 1997

From: "Brian J Keegan" <bkeegan@viconet.com>

Subject: [13269] Re: Tarnished Keys
Message-ID: <199702280144.UAB00084@mail.VICONET>

In response to Dave's questions about cleaning tarnished keys:

Try NEVER DULL, Dave. You should be able to find it in well stocked hardware stores.
It's a large wad of wool/cotton type treated material and it's great. Will clean and shine just about any metal you can think of. I used it to clean up the chrome on my bug and it looks like new. I originally used the stuff to clean the chrome and aluminum on my Harley. Haven't been without it since.

Good luck...Brian KF2HC

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: Philip Karras <ke3fl@access.digex.net>
Subject: [13327] RE: Two Antenna Questions
Message-ID: <Pine.SUN.3.94.970228155218.29675A-100000@access4.digex.net>

Marty, Make sure you calc the lengths and make them a bit longer. Then place the antenna up & in the configuration you want & then prune to your hearts content. It's what you have to do with even one dipole. However, with two I would get close, say 2:1 on one, then adjust the other & see if there was a change on the first & re-adjust. (Which is why I wouldn't cut the first to a "perfect" 1:1 before seeing what a change on the second would do to the SWR.

Not sure there is a best one to adjust first. Follow the above & you should be able to get it right for your location.

72 & 73 de KE3FL/Phil
:-)

From owner-qrp-1@Lehigh.EDU Fri Feb 28 18:07:17 1997
From: Monte Stark <ku7y@sage.dri.edu>
Subject: [13256] Re: W5TFB FOX Results
Message-ID: <Pine.SUN.3.90.970227142923.292A-100000@vortex.sage.dri.edu>

Chuck and all,,,,,

Didn't know if there was to be a fox or not last night. I was stuck in the motel in downtown Elko, NV.

I listened and heard a ".....jack 282 bt" then nothing. And that was it.

So I went downstairs to dinner. Came back to the room and heard "cq fox...." Wow, there was Jack, with a good sig. I called one time and got him!

ATTENTION CHUCK:

I think this is the first confirmed Fox from a motel using a NorCal 40a and SLV on the 3rd floor balcony.

That should be worth at least a 100 point bonus..... :-)

BuzzNot from Wilderness Radio saved the day. There must be at least a gazillion neon lights around the motel and clubs and it cut the noise way down.

Also had a nice long rag chew with another Texas station and one in Oklahoma! Who sez 2w doesn't work?

cul,

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....